Course Code: ITC11
Course Name: Mini Project

Credit Scheme			Evaluation Scheme				
Lecture	Practical	Credit	Internal			External	Total
			Written	Practical	Tutorial		
-	10 Hrs./Week	5	-	75	-	50	125

Course Description:

A mini project is an assignment that the student needs to complete at the end of every semester to strengthen the understanding of fundamentals through effective application of the subjects learnt.

Course Outcomes:

Student will be able to

CO1: Create working project using tools and techniques learnt in this semester (Create)

Course Structure:

Guidelines for Mini Project

1. Students are expected to undertake one mini project starting from first semester till third semester.
2. The student may take up the mini project in first semester based on the courses learnt in that semester and for every next semester the mini project may be based on the courses learnt in the current semester along with all the subjects learnt in earlier semesters.
3. The student may take up the project individually or in group. However, if project is done in group, each student must be given a responsibility for distinct modules.
4. Selected project/module must have relevant scope as per the marks assigned and must be carried out in the Institute.
5. Internal guide should monitor and evaluate the progress of the project on individual basis through handwritten workbook (Project Diary) maintained by students containing various project milestones with learnings and remarks from internal guide for concurrent evaluation.
6. The Project Synopsis should contain an Introduction to Project clearly stating the project scope in detail justifying enough scope for 125 marks. The project work will carry 75 marks for internal assessment and 50 marks for external assessment.
7. Students are expected to show working demo of the project during final evaluation.
8. Students are expected to submit the soft copy of mini project report as a part of final submission.
9. The project will be assessed internally as well as externally by the examiners appointed by University. University may appoint Industry Experts as an external examiner

Course Code: ITC41
Course Name: Project

Credit Scheme			Evaluation Scheme				
Lecture	Practical	Credit	Internal			External	Total
			Written	Practical	Tutorial		
-	40 Hrs./Week	22	-	250	-	300	550

Course Description:

A project is an assignment that the student needs to complete at the end of semester IV to strengthen the understanding of fundamentals through effective application of the subjects learnt.

Course Outcomes:

Student will be able to

CO1: Create working project using tools and techniques learnt in the programme (Create)

Course Structure:

The project is an outcome of technical skills and domain knowledge acquired by the students during the program. Students demonstrate problem solving skills, analytical ability, logical thinking, communication skills and team work during the course of the project. The project can be implementation of a research work published in any reputed journal.

1. The project may be done individually or in groups. However, if project is done in groups, each student must be given a responsibility for distinct modules.
2. Selected project/module must have relevant scope as per the marks assigned and can be carried out in the Institute or outside with prior permission of the Institute.
3. Internal guide should monitor and evaluate the progress of the project on individual basis through handwritten workbook maintained by students containing various project milestones with learnings and remarks from internal guide for concurrent evaluation.
4. The Semester IV project should be having sufficient scope for 400 marks. The project work will carry 300 marks for internal assessment and 250 marks for external assessment.
5. Students are expected to show working demo of the project during final evaluation in semester IV.
6. The project report should be prepared as per the University prescribed format with all the chapters mentioned in project guidelines. And it should be printed on back-to-back pages (one copy) which should be signed by the internal guide and the Director of the Institute. A client

(colleges, Non IT organization, and IT organization) certificate should be attached to prove the authenticity of the project work done.

7. The project will be assessed internally as well as externally by the examiners appointed by the institutions and University.

Type of Projects

1. Application Development

The students are advised to choose a project that involves window-based development, web-based development, mobile-based development, projects based on machine learning. Analysis and interpretation of any company specific data is not permitted.

2. Embedded Systems / IoT

A project should be developed and implemented for application specific system after thorough investigation of the latest development in the field of electronics or communication to facilitate their efficient operation. The Real Time Operating System (RTOS) or open source platform can be used to develop embedded applications such as Robotics, Microcontroller / Microprocessor based projects etc.
An IOT project can be used to design products for reliability and security using simple electronics concepts and integrating with a cloud platform to get the data real-time and make some operational analysis. It has to use efficient algorithms for strong authentication and security protocols and disable non-essential services.

Few examples of IoT applications
Smart home, Health care applications, Smart waste management, Activity Tracker etc.

3. ETL Projects

Extract, transform, load (ETL) is the process of integrating the data from one or more sources. It is expected from the student that he should demonstrate the entire ETL process with reference to any domain like finance, banking, insurance, retail etc.
Data extraction consists of extracting the data from homogeneous or heterogeneous sources and transforming it into a proper format using data cleansing. The data can be finally loaded into a final target database such as operational data base, a data mart or data warehouse. This data can be further used for the purpose of querying and analyzing.

4. Research Projects

The research project will be able to demonstrate the skills of working scientifically, and through the project the students will able to understand how to do a literature review, and how to appraise the literature to address questions. To explore an area of interest (develop some expertise and a deeper understanding of a topic). Understand the tools to critically and thoughtfully appraise problems which are faced every day; to learn communicate scientific research in verbal presentations and written form.
As an example, the students can identify any problem, by observation or through survey to understand the problem in depth and propose the solution by applying the research methodology.

MES Institute of Management and Career Courses (IMCC),Pune

MCA MINI PROJECT GROUPS AY 2021-2022

SEMESTER - I

Group No.	Roll Number	Student Name	Project Name
1	2101025	Devlalkar Nikhl Nitin	Online Shopping System
	2101037	Gandhe Atharva Mukund	
2	2101116	Singh Poonam Sudama	Apartment Management System
	2101020	Deo Shruti Manoj	
3	2101125	Thorat Hitesh Arun	Forum website using node js, and mongo DB
	2101122	Tappe Hrishikesh Deepak	
4	2101123	Tarte Pooja Sanjay	Quiz Application
	2101057	Kakad Sakshi Digambar	
5	2101118	SOHAL HARPREET KAUR	Pizza ordering system
	2101097	PATOLE JOEL RICHARD	
6	2101110	Satpute Poonam minanath	Computer Shoppe Management System
	2101099	Punde sanjivani Sanju	
7	2101135	Wasule Vaishnavi Rajkumar	Employee managemant system
	2101121	Tambe Priyanka Rajendra	
8	2101033	Dixit Yadnesh Prashant	Barber Shop Managment System
	2101095	Patil Rohit Sunil	
9	2101026	Dharane Anekket Parag	Hospital Management System
	2101055	Joshi Devraj Vijay	
10	2101081	Nandeshwar Swapnil Bandu	Billing Management system
	2101046	Ingle Ujwal Sunil	
11	2101090	Parkhi Aniket Vilas	Online Voting System
	2101077	More Kiran Santhosh	
12	2101031	Dhumal Shivani Ganesh	Blood bank management system
	2101052	Jain Suman Bharat	
13	2101008	Barad Manali Mohan	Online Grocery Shop Management
	2101072	Mali Pratiksha Rajendra	
14	2101036	Gandas Shreya Dinesh	Food Delivery Website
	2101047	Jadhav Dhanshree Shaligram	
15	2101006	Baitule Sakshi Purushottam	Car Rental system
	2101100	Rajguru Preeti Pradeep	
16	2101013	Bhujbal Ankita Dilip	Farmacy Sales/Purchase system
	2101060	Akshita	
17	2101023	Deshmukh Revati Kiran	Crypto TransactionD App
	2101024	Deshpande Adwait Prasanna	
18	2101066	Kharat Gaurav Mahendra	ecomerce website for Atlanta Water Purifier
	2101111	Shelke Siddhi Ganesh	

19	2101032	Dingore Piyush Mahesh	Wheather prediction (salesforce) Pending
	2101107	Sagare Rohit Mohan	
20	2101098	Pawar Yogesh Jaysing	Sentimate based movie rating system
	2101030	Dhongade Varad Abhinaya	
21	2101018	Chougale Ujjawal Sanjay	Digital Grampanchayat
	2101054	Joshi Aditya Vinay	
22	2101103	Kumar Rajath Rao	Text typing Game
	2101069	Kumthekar Harish Rajendra	
23	2101012	Bhavsar Aditee Arun	ABSENT
	2101063	Karve Maithili Nitin	
24	2101021	Deshmukh Aishwarya Sanjay	Confidential document security system
	2101106	Rekhawar Ayushi Gajanan	
25	2101117	Surbhi Singh	Query inquiry
	2101085	Nitya Kaushik	
26	2101119	Soni Riya Santosh	Event Management System
	2101075	More Aishwarya Manish	
27	2101062	Kapse Shubham Ashokrao	Info invest
	2101078	More Vikrant Vasant	
28	2101027	Dhawan Saurabh Shekhar	Garbage collector (Android App)
	2101089	Pardeshi Rutvek Raju	
29	2101109	Salve Nikita Raju	Online book Sharing System
	2101104	Raskatla Ashrita Ramesh	
30	2101102	Rajpure Sarvesh Sachin	Mod Menus- Digital Menus
	2101101	Rajpure Sanika Sachin	
31	2101088	Parashare Miheer Hemant	Canteen Management System
	2101113	Shinde Pavan Sunil	
32	2101115	Shitole Manasi Ashok	Online Job Portal (PHP)
	2101035	Gaikwad Shruti Sanjay	
33	2101017	Chavan Pranit Pradeep	Online shopping collection
	2101070	Magar Aditi Abhijeet	
34	2101011	Bharti Gaurav Ram	Gym Management system
	2101043	Gurdehalli Audusiddha Dharmanna	
35	2101019	Dawale Rushikesh Nitin	E-Commerce Website for selling computers
	2101059	Kamatkar Sujay Narsinh	
36	2101074	Mekhale prashant prakash	Fruits and vegetables selling website
	2101124	Thombre pravin dnyandeo	
37	2101048	Jadhav Komal Raju	CRM
	2101076	More Kalpana Hiralal	
38	2101053	Ravi Kumar Jha	Online Parking booking system
	2101132	Dhruv Vats	

39	2101068	Kumari Arya	Blood Bank Management System
	2101084	Nikam Aakanksha Keval	
40	2101096	Patil Shivam Rajendra	Online football turf booking
	2101130	Valvi Rajendra Ravidas	
41	2101128	Shubham Rajesh Uikey	Farmer producer organisation website
	2101114	Sambhaji Kisanrao Shinde	
42	2101028	Dhawane Swarnim Prakash	Travel & tourism
	2101126	Tikle Mayur Vijay	
43	2101042	Gunjal Yash Uday	Ride a gear
	2101002	Andil Aniket Bhagwat	
44	2101079	Muthane Aditya Rajeev	Online watch company
	2101041	Gosavi Priti Sanjaygiri	
45	2101022	Deshmukh Rajshree Prabhakar	Online Bookstore
	2101064	Khairnar Ketan Vijay	
46	2101094	Patil Nishant Dharamsing	Online Pharmacy
	2101014	Bodhankar Akshay Vinod	
47	2101061	Kanade Gajanan Hemant	Expense management system
	2101083	Nevase Aditya Bhausaheb	
48	2101087	Pandhare Shreyas Santosh	Airline Reservation System
	2101016	Bujurge Abhishek Suresh	
49	2101082	Natekar Atharva Satish	Competitve World - Online Competition platform
	2101007	Bansode Mahadev kishor	
50	2101029	Dhole yogita suresh	Organic Food Webapp
	2101108	Salunkhe surekha vishwas	
51	2101058	Kalantre Maitreyi Atul	Student Profile Event Management System
	2101045	Inamdar mohammed nawaz yusuf	
52	2101040	Gore Anushree Anand	ONLINE QUIZ WEBSITE
	2101080	Naik Anoushka Sanjay	
53	2101120	sonone Sandesh Vivekrao	Attendance marking system
	2101067	Khedekar shubham vishnu	
54	2101010	Bharati Shreya Rajesh	Gesture controlled game
	2101005	Badnore Anushka Rajesh	
55	2101050	Jadhav Rushikesh Suresh	Food delivery app
	2101001	Aglawe Ankita Ashok	
56	2101129	Ujjainkar sushrut Prashant	Goal Getter
	2101134	Wani aniket Devendra	
57	2101065	Khanzode Shubham Ramrao	SCRAP It
	2101049	Jadhav Krishna Dattatray	
58	2101009	Bhakare Shantanu Santosh	

	2101091	Upadhyay Parth Amol	Page Turners
59	2101092	Patil Ashwini Nana	
	2101112	Shelke Vaishnavi Sunil	Rent Attiare
60	2101093	Kalpesh Dnyaneshwar Patil	Online Book Store
	2101056	Kadam Sameer Anand	ABSENT
61	2101003	Anil Kumar	
	2101004	Awchat Gaurav Dnyaneshwar	Tourism of Rajasthan
62	2101086	Ombhase Akshay Nitin	House Rent Management System
	2101071	Mahajan Vedant Bhushan	
63	2101038	Gangurde Srusti Nagesh	Online Shopping for Pets
	2101034	Dube Pranali Vijayprasad	
64	2101073	Mazire Ajinkya Rajendra	
	2101015	BORSE JAGDISH PUNDLIK	Bugs Tracking System
65	2101051	Jagtap Hrishikesh Sanjay	
	2101131	Vandan Kumar	AcademicEve (Academic Event Management)
66	2101133	Vhanmane Ranjit Dadaso	Pomogranete Selling Website
67	2101039	Ghodke Pratik	ABSENT
	2101105	Rathod Ashish	foodpanda
68	2101044	Hendre Prachi	
	2101127	Tripathi Shubham	Blood Bank Management System

MS

SS Parlikar

Class Coordinator
Dr. Minakshi Tumsare

Project Coordinator
Dr. Shilpa Parlikar

MES Institute of Management and Career Courses (IMCC),Pune

MCA MINI PROJECT GROUPS AY 2021-2022

SEMESTER - III

Sr.No.	Roll Number	Name	Guide Name	Project Name
1	2012080	Tanmay Kulkarni		
2	2011040	Atharva Deshpande		Turf Bookig System
3	2011054	Sejal Gupta		
4	2011051	Rachna Gonarkar		E-Adventure
5	2012120	Hasnain Alimohmmad Shaikh		
6	2011025	Suraj Nandkishor Biyani		Bi garage
7	2011006	Sankalp Asole		Driver Drowsiness Detector Master
8	2011037	Dnyanesh Desai		
9	2012076	Mihir Kudale		Health Insurance Cross sell Prediction
10	2012114	Rajesh Rampure		
11	2011003	Vishnu Agarwal		
12	2011055	Jafarali Hajari		Amazon Clone
13	2012103	Ankit Patil		
14	2011001	Rama Abhinkar		Car Parking App
15	2012073	Minakshi Khamkar		Learning Management system
16	2012106	Radhika Patil		
17	2012077	Sanika Kulkarni		
18	2012134	Chaitali Vale		Tourism Management Sytem
19	2011009	Prathamesh Badarayani		Movers Packers web application
20	2012086	Lerin Makadia		
21	2012072	Devendra Kavathekar		
22	2011069	Prathamesh Kamble		Online Bookstore System
23	2011036	Kaustubh Deore		
24	2012124	Swapnil Shinde		Driver Hiring Application
25	2011002	Heramb Adghare		Ecommerce website
26	2012079	Soham Kulkarni		Online Home Services
27	2012092	Unmesh Mirajkar		Gesture control system for media player
28	2012122	Shubham Shinde		
29	2011016	Swarup bhagde		Blossoms Flower shop-CSS,HTML,Django,Python
30	2011064	Rajat Joshi		
31	2011049	Hrishikesh Ghanti		Cryptocurrency And Blockchain
32	2011020	Vishesh Bhandare		
33	2012082	Harshal Sanjay Kulthe		Car Rent-Android studio,sqllite
34	2011012	Saloni Sanjay Balfewad	Dr. Shweta Meshram	
35	2011046	Anuj Gaikwad		
36	2011022	Utkarsh Bhangale		Food Trip
37	2011004	Harihar Ajay Apamarjane		
38	2011060	Amit Jaiwal		Tutecraft
39	2012123	Suyash Dattatray Shinde		
40	2012084	Bhushan Ashok Kumbhar		Blood Bank Application

41	2011021	Vaishnavi Bhandari		
42	2012096	Gayatri Nehete		Online grocery shop
43	2012090	Harshada Mali		
44	2011056	Atharva Ikhar		Mirracle morning mentor
45	2011014	Upendra Beth		
46	2012133	Harsh Thakur		Rentlab
47	2011045	Pratik Gahane		
48	2012132	Sanket Thakare		PokeBattle
49	2011042	Rushikesh Dhus		
50	2011047	Anushka Garje		Personalised chat application
51	2012125	Vishal Shinde		Cloud Kitchen
52	2012119	Asif Sayyad		
53	2012099	Nachiket Paranjape		
54	2011048	Soham Ghaisas		E com website
55	2012101	Akhilesh Parundekar		
56	2012097	Mayuresh Nitsure		Flight fare prediction
57	2012137	Vishal Yadav		
58	2012138	Kalyani Zade		Mobile application for :- pimpari pendhar sahakari dhudh utpadhk sanstha, pimpari pendhar.
59	2012085	Vedant Laddha		
60	2011027	Mitali Bubne		Car Rental system
61	2011034	Shivani Dani		
62	2011035	Anjali Deore		Instgram friend recomendation
63	2012087	Mihir Limaye		
64	2011013	Shantanu Balkawade		Restaurant table booking system
65	2011031	Sumedha Dalvi		
66	2011061	Manasi Janapurkar	Dr. Manasi Bhate	Hostel mgt system
67	2011029	Chavan Sandip Papalal		
68	2011058	Jadhav Sagar Popat		SB Academy Education Portal
69	2011017	Ashutosh Bhagwat		
70	2011062	Mihir Joshi		Diabetic Prediction Model
71	2012128	Shweta Kumari		
72	2012091	Divya Malviya		Flight Predication Model
73	2012115	Purva Rane		
74	2012113	Vaishnavi Rajput		Mental Health Analysis
75	2011023	Raj Bhattad		
76	2012135	Harshal Vibhute		Jwellery Store
77	2012126	Shashank Shirode		
78	2012081	Vaibhavi Kulkarni		File Converter App
79	2011068	Nilay Kalaskar		
80	2012071	Shubham Katwale		Laundry Management System
81	2012110	Sushma Hanumant Pawar		
82	2012109	Srushti Sanjay Pawar		Human Acitivity Recognition
83	2011041	Devan Dnyaneshwar Devare		
84	2011015	Akshay Sanjay Bhagat		Covid 19 Tracker using React

85	2011039	Ashwin Satish Deshpande		
86	2011066	Rushikesh Laxmikant Joshi		AI based Virtual Mouse
87	2011018	Pratik Bhalse		
88	2012121	Shubham Shimpi		Online Job Portal
89	2012102	Shubham Sampat Pathak		
90	2011030	Anuja Sharadkumar Dabhade		Self Learning App
91	2011008	Ayush Kumar Prabhat		Help Us-Online Charity Donation App
92	2011059	Dipali Jagtap		
93	2011005	Aroskar Tejal Vijay		IQR based sales prediction tool
94	2011065	Joshi Rushikesh Bhaskar		
95	2012078	Bhagyawati Kulkarni		
96	2012131	Vishwanath Taware		Easy Jobs Portal
97	2012129	Adesh Pundlik Sukye		
98	2012088	Swapnil Nandkishor Lule		Doctor Appointment System
99	2012127	Pradip Shirsath		
100	2011010	Jayesh Bagad		Vehicle Parking System
101	2012094	Akash Mohite		
102	2012093	Sandip Mishra	Ms. Manasi Shirurkar	News Reading App
103	2011033	Sahil Dange		
104	2012098	Sourabh Panade		Appointment Scheduling for FC?ARC
105	2011067	Tejashree Anand Joshi		
106	2012136	Pratiksha Mahendra Wayase		Campus Recruitment System
107	2011038	Pradnya Desai		
108	2011063	Prathamesh Joshi		Online cake ordering system
109	2011052	Ashutosh Gorke		
110	2012070	Jyoti Subhash Katake		Broadband Management System
111	2011043	Dattatray Dorage		
112	2012111	Pornima Puri		Onroad 4 Wheel vehicle break down assistnace
113	2012118	Shubham sakpal		
114	2012100	Chinmay parulekar		Assemblage
115	2011050	Arpita Ghodichore		
116	2011057	Anushree Ilme		Women Safety
117	2012074	Anil ramlu koli		
118	2012075	Shabbir Kothari		Gray scale to color
119	2011019	Piyush Bhamare		
120	2012112	Rasik Rahurkar		Todo list
121	2012107	Saurabh Patil		
122	2012095	Rahul Narkhede		The Roar Fashion
123	2011032	Rajesh Dandge		
124	2011007	Madhura Asolkar		Safety Alert
125	2012108	Aatish Pawar		
126	2011011	Sampada Bakhal		IoT Home automation
127	2012116	Ranvikar Vekatesh Udayrao		
128	2012130	Sutar Chetan Balasaheb		Luv2shop
129	2012083	Kumawat Jagdish		Library Management
130	2012104	Madhuri Rohidas Patil		

131	2012089	Rutu Rajendra Mahajan		Rental house
132	2011044	Gadekar Swapnil Bhausaheb		Plant leaf desease prdection system
133	2011024	Bhusari Savin Baburao		
134	2011028	Harsh Chauhan	Dr. Venugopal Narsingoju	
135	2012117	Rishu Kumar		Agro craft

SSParlikar

Class Coordinator
Ms. Manasi Shirurkar

Project Coordinator
Dr. Shilpa Parlikar

MES Institute of Management and Career Courses (IMCC),Pune

MCA MINI PROJECT GROUPS AY 2021-2022

SEMESTER - V

Sr. No	Roll No	Student Name	Project Name
1	1911024	KOKIL PUSHKAR S.	Government Sceme management system
2	1911040	PATEL RITIK .	Online trading terminal
3	1911055	SHINDE SANDHYARANI G.	Onnline bookstore system
4	1912012	DESHMUKH VAISHNAVI A.	Furniture selling and purchasing system
5	1912026	MAMIDWAR SHREYA .	Food Dosti
6	1912034	PARIKH RADHIKA B.	Online Banking System
7	1911009	DALAL MADHUMITA .	E-Doctor appoitment and billing system
8	1911012	DESAI PREETI Y.	Online medical store
9	1911056	UPKARE JUILY M.	BI tool for accounts
10	1912005	BELOKAR RUSHABH D.	Software development system
11	1912025	LADDAD AKSHADA S.	Surfmyturf(website)
12	1912033	PANDE SARITA S.	Online university Library Management System
13	1911020	INGULKAR PRANIT B.	Electrical vehical charging Station
14	1911023	KAPALE AMAN .	Greenfermed(ecom platform)
15	1912046	SONGIRE DHIRAJ R.	Blood bank Management
16	1912050	THORAT PRAJAKTA B.	Virtual art gallery (Painting Ecom website)
17	1912013	DHADHI DINESH .	Retail shop systme
18	1912016	JAGTAP HRISHIKESH J.	Online OTT platform
19	1912020	KASPATE TANVI S.	absent
20	1912023	KULKARNI SHRIYA M.	Placement Management System
21	1911001	ADAKMOL PUNAM M.	Complaint management system
22	1911028	KULKARNI PRATIK P.	Literature review of Software Patents and Predicting the future of it
23	1911030	LENDWE KIRAN R.	Online Saloon Shop
24	1911052	SHAIKH ARIF M.	bakers.com
25	1911053	SHARMA ANKIT K.	Ecommerce System-Single vendor system
26	1912003	ANGEER HRISHIKESH R.	Hotel Management System
27	1911017	DUBILE KISHOR V.	Plastic Granule Modelling
28	1911025	KOLLIMARLA SRIVAISHNAVI S.	Online Bookstore-'All in one'
29	1911048	RATNAPARKHE SUDEEP P.	Online Chat Window-Chatbot
30	1911051	SHAHU SHYAMAL R.	Online Library Management System
31	1912008	BHOJAK SHIVANI .	OnRoad Vehicle Breakdown Assistence
32	1912017	KAMBLE POOJA P.	Secure K-NN Query on Encrypted Cloud Data in KIDS
33	1911005	BIHANI NANDAN M.	Face Detection and Recognition
34	1911045	PRADHAN RASIKA S.	Artinfinity,Graphic Desigining Service System
35	1911054	SHINDE AKANKSHA .	Creamy creation by cake Corner
36	1912006	BHALERAO TRINETRA N.	online news portal
37	1912024	KULTHE ADITYA K.	ETL Implementation for bicycle share system provider company
38	1912051	VAISHNAVI KALE	sculpture Management System
39	1912041	SATPUTE PRIYANKA S.	online portal for photo and video grapher

40	1911004	BHOGADE DISHA S.	Delicious Bakery
41	1911039	PARDESHI KRUTIKA N.	Construction vehical rental system
42	1912019	KARYAKARTE AVANI S.	Online Learning Management system with live chating
43	1912036	PEHARKAR AKSHAY A.	Medication Repository system
44	1911011	DAREKAR PRANALI .	Online Sports Accessories Management System
45	1912048	TAMBOLI SHRUTI S.	Online Assignment Plagiarism checker System
46	1911033	MARATHE JAYMALA V.	Frameelite (HINDUSTAN FRAME WORKS)
47	1912027	MANEKAR SIDDHANT P.	Vaccination Booking and Alert System
48	1912028	MAYENGBAM MALEMNGANBA I	Advanced Placement Management System APMS
49	1912039	SABNE PRITEE P.	MESS Booking Management
50	1911008	CHAVAN ARPITA V.	Mobile based Library Management System
51	1911018	GHAISAS ADVAIT R.	E-Secure System
52	1911027	KULKARNI KAUSTUBH N.	Advanced Placement Management System APMS
53	1911036	MEHTA NEHA P.	Research on health insurance plans in India
54	1912022	KULKARNI ABHISHEK A.	Human Resource management System
55	1911032	MAHABAL ATHARVA S.	Gym management system
56	1911044	PATTEWAR SHRUTI B.	online book shop and library management
57	1912001	ABHYANKAR VIBHAV .	SmartGateApp
58	1911029	KULKARNI VARUN R.	food delivery web app
59	1911034	MAYANE SHUBHAM S.	-Car Servicing Management System
60	1912011	DAHAPUTE ADITYA R.	E Gaming
61	1912032	NAMAWAR SATYAJEET L.	Learning Management System
62	1911021	JADHAV SANGHARSHA R.	Fitness and Nutrition
63	1912002	AKHADE NILESH D.	Tours and Travels
64	1912004	BALMIKI DEEPAK M.	AB
65	1911037	NALAWADE TRILOKNATH J.	Dairy Management System
66	1911041	PATIL ANIKET S.	Blood Bank
67	1912053	VERMA AKANKSHA .	Hyper-local E-Commerce Website
68	1912009	BIHANI JAI A.	Smart Parking App
69	1912035	PATIL NIKHIL R.	Tours & Travel Management
70	1911002	APTE SHRUTI S.	Aqua Skipping
71	1911014	DESHPANDE NIMISH P.	E-Bike Company Website
72	1911031	LONDHE ROHIT S.	Not submitted yet
73	1911047	RATHOD ANKUSH .	Real Estate Management System
74	1912043	SHENDE SARANG .	Voice AI Assistant
75	1911035	MEHTA AAKANKSHA M.	Research-Education Loan in India
76	1912030	MUNOT SHWETA S.	Corporate Recruiter system
77	1911042	PATIL PALLAVI P.	Orphange Welfare System(php,mysql)
78	1912007	BHAVE NUPUR S.	Image recognition - Food Menu Feature Identification (Fats, Protine and Vitamis identification according to Ingredients) Research Based (Google glass)+deep Learning
79	1912018	KAPASE SANJAY B.	Furtilizer selling Mobile APp-tentative topic

80	1912031	NAIK PRITAM .	Content Management -Chat bot Application
81	1912040	SARKAR KUNAL .	Education Loan systems in India
82	1911006	BOMBE AJIT D.	Event Management system
83	1911010	DAM PRANAY .	Receipe recommendation system
84	1912010	CHAUDHARI NIKHIL V.	Employee leave management system
85	1912047	SURYAWANSHI CHAITALI S.	Pathology lab management
86	1912049	THANAGE RUTVIK K.	Odd job mangement
87	1912021	KHANDAJKAR KOMAL S.	Ecommerce management
88	1912029	MORE SHUBHAM I.	Agricultural Equipment and Trading System
89	1912014	GHATOL AKASH N.	Digital Menu Card Using QR Code System
90	1912015	INGLE SHIVANI B.	Technoquest for Jobseekers
91	1912037	PUNTAMBEKAR KAUSHIK M.	FitFirm Project
92	1911049	RAUT SHUBHAM N.	Building Material Supplier (Yash Enterprise)
93	1912045	SOFI AZHAR .	Sales and Accounting (Inventory Management System)
94	1912038	RANE POOJA P.	Cloud Kitchen (The Shidori Foods)
95	1912042	SHAH PUNIT A.	Study Hall Mngt
96	1911003	BHAWAL AKASH M.	Covid -19 Hospital Management System
97	1911007	BRAHME NIRANJAN A.	cOLLEGE eNQUIRY cHAT bOT
98	1911013	DESHMUKH RADHIKA S.	e-Healthcare and medical prescription
99	1911043	PATIL RAHUL V.	Leave Management System
100	1911046	RAGHU JYOTI U.	Collective sales store Mangement System
101	1911015	DESHPANDE SONIYA A.	interior design for domestic and industry
102	1911019	GORE SHREYA .	Tours and travel System
103	1911026	KULKARNI BHAVANA .	Grocerry Shop Management System
104	1911038	NIPHADKAR PRASAD B.	Bike service management system
105	1911050	SAVAKHAND PRADNYA P.	Coffee shop Management System
106	1912044	SHETE AKSHAYKUMAR S.	Employee management System
107	1912052	VARTAK ADITYA A.	Match prediction Analysis

Class Coordinator
Dr. Venugopal Narsingoju

Project Coordinator
Dr. Shilpa Parlikar

Project Guidelines:

1. Application Development Project

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1		**Introduction**
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	1.2	Abstract
	1.3	Existing System and Need for System
	1.4	Scope of System
	1.5	Operating Environment - Hardware and Software
	1.6	Brief Description of Technology Used 1.6.1 Operating systems used (Windows or Unix) 1.6.2 RDBMS/No Sql used to build database (mysql/ oracle, Teradata, etc.)
2		**Proposed System**
	2.1	Study of Similar Systems (If required research paper can be included)
	2.2	Feasibility Study
	2.3	Objectives of Proposed System
	2.4	Users of System
3		**Analysis and Design**
	3.1	System Requirements (Functional and Non-Functional requirements)
	3.2	Entity Relationship Diagram (ERD)
	3.3	Table Structure
	3.4	Use Case Diagrams
	3.5	Class Diagram
	3.6	Activity Diagram
	3.7	Deployment Diagram
	3.8	Module Hierarchy Diagram
	3.9	Sample Input and Output Screens (Screens must have valid data. All reports must have at-least 5 valid records.)
4		**Coding**
	4.1	Algorithms
	4.2	Code snippets
5		**Testing**
	5.1	Test Strategy
	5.2	Unit Test Plan

	5.3	Acceptance Test Plan
	5.4	Test Case / Test Script
	5.5	Defect report / Test Log
6		**Limitations of Proposed System**
7		**Proposed Enhancements**
8		**Conclusion**
9		**Bibliography**
10		**Publication / Competition certificates**
11		**Appendix – Cost sheet , Data sheet**
12		**User Manual** (All screens with proper description/purpose Details about validations related to data to be entered.)

2. Embedded Systems / IoT Project

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	1.5	Operating Environment - Hardware and Software
	1.6	Brief Description of Technology Used 1.6.1 Operating systems used (Windows or Unix) 1.6.2 Database (if applicable)
2		**Proposed System**
	2.1	Study of Similar Systems (If required research paper can be included)
	2.2	Feasibility Study
	2.3	Objectives of Proposed System
	2.4	Users of System
3		**Analysis and Design**
	3.1	Technical requirements – H/W , S/W
	3.2	System Architecture / Block Diagram
	3.3	System Hardware Details
	3.4	Pin Diagrams
	3.5	Interface diagrams
	3.6	Design Sequence
	3.7	System Software Details
	3.8	Process / System Flow chart
4		**Coding**
	4.1	Algorithms
	4.2	Code snippets (if applicable)
5		**Testing**

	5.1	Results & reports
	5.2	Test cases
	5.3	Acceptance Testing
	5.4	Test reports in IEEE format
6		**Limitations of Proposed System**
7		**Proposed Enhancements**
8		**Conclusion**
9		**Bibliography**
10		**Publication / Competition certificates**
11		**Appendix – Cost sheet , Data sheet**
12		**User Manual** (All screens with proper description/purpose Details about validations related to data to be entered.)

3. ETL Projects

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1		**Introduction**
	1.1	Company Profile / Institute Profile / Client Profile
	1.2	Existing System functionality (Source System for which the ANALYTICS is being developed)
	1.3	Business process understanding and specifications 1.3.1 Business Requirement Specifications: 1.3.1. 1 The o/p from BR Analysis are BRS Business Requirement Specifications (Business specific Rules to be mentioned here from analysis point of view) 1.3.1.2 Identify the dimensions, required attributes, measures, filter conditions, adjustments for KPIs going to be used in the Target system and its availability in the Source System. If any gaps suggest remediation of gaps 1.3.2 Business Rules Collection 1.3.3 Identify the Key Performance Indicator (specified by 1.3.4 Establish the User Acceptance Criteria client)
	1.4	Scope of the project
	1.5	Operating Environment - Hardware & Software, Description of Tools / Technology to be used in the Target system 1.5.1.1 Operating systems used (Windows or Unix) 1.5.1.2 RDBMS/NoSql used to build database (mysql/ oracle, Teradata, etc.) 1.5.1.3 ETL tools used (Talend/Informatica, Datastage etc) 1.5.1.4 OLAP/ Data mining/ machine learning/ analytics tools used (Python/ Cognos, BO, etc.) 1.5.1.5 Data visualization tools (power BI / Tableau)
2		**Proposed System**
	2.1	Creating multiple ETL strategies - Specifying metadata details, identifying heterogeneous architectures, processes for I/O only for ETL,

		scrapping , identifying the volatilities in the channels , designing strategies in the context of the business and existing ERP
	2.2	Comparing them in the context of selected business system (as per the business requirements)
	2.3	Suggesting optimum solution (process)
3		**Analysis and Design**
	3.1	Use Case Diagram
	3.2	Activity diagram to demonstrate Process flow (execution of ETL process)
	3.3	Design of Target system (Elaborate the tiers of DW architecture in the Target System)
	3.4	Database schema / Table specifications of Target system
	3.5	Details of Source & Targets of mapping in the database
	3.6	Details of Load (Full/Incremental etc.)
	3.7	Design of ETL schema/strategy
4	**4.1**	**Design of strategy for Visualization** 4.1.1 Visualizations in support of comparison of performance of various ETL strategies 4.1.2 Data visualization using different techniques (if any)
5		**Drawbacks and Limitations Proposed Enhancements**
6		**Conclusion**

4. Research Projects

Research projects especially are designed to gain knowledge about some specified area and the deliverable is that knowledge gained, usually encapsulated in some form of report.
Students are expected to contribute something new to academic or practical knowledge in their research area—something original that is more than the accepted knowledge.

Completing a Research Project as part of your coursework is an opportunity to:

- learn to read and interpret other people's research critically by doing your own. This gives you an insight into the effects of practical difficulties and theoretical debates on published research
- develop and apply the knowledge that you have learnt in 4 semesters of your curriculum.
- submit a paper for peer-reviewed publication. (If successful, this will give a boost to your c.v.) If you wish to enroll in a research degree such as PhD, a research project as part of your coursework will assist the committee evaluating your application in assessing whether you are ready to do independent research.

Research Index

1. Title page

2. Acknowledgements

You should acknowledge the assistance given to you by your supervisors, and any other person or organization that has helped you in the planning, conduct, analysis or reporting of your project.

3. Abstract

This is a synopsis of your study question, aims and objectives, background literature, methods, results, key conclusions and recommendations. This should be 250–300 words long and should be very clear and easy to follow.

4. Introduction

In this section of your report you introduce the subject, provide the background to the topic or problem, outline the study question (or problem or study hypothesis), and outline the aims and objectives of your study.

5. Literature review

This is a review of the literature on the topic or problem you are studying. It should include a review of any other studies or projects similar or relevant to yours, and perhaps a review of the literature on the method you have chosen if your project tests a new method of research or analysis.

6. Methods

This section includes the methodology of your research. It will cover such issues as:
In case of Computer Management Research :

- Study design
- Study population, sampling frame and numbers, sampling method
- survey design
- survey or data collection instruments
- protocol for obtaining data
- ethical issues and how they are addressed
- information letters, consent forms
- data management and analysis methods
- statistical analysis and tests
- In case of Computer Science Research:
- Study design
- System Architecture
- Implementation
    - Experimental Implementation
    - Simulation
- Data management and analysis methods
- Analysis and testing

7. Results

In this section you present the results of your research. Tables, figures and graphs are an excellent means of presenting this sort of information. All tables, figures and graphs, should be numbered consecutively throughout the whole report, and labelled with a clear and concise descriptive title.

8. Discussion

In this section you interpret your results and discuss their implications, with reference to other published research. Any limitations in your research methodology should also be referred to here. Examiners expect you to acknowledge these limitations as an integral part of your evaluation of your project.

9. Conclusion

This section summarizes the key results and the conclusions that you can draw from these results. It also needs to reflect what your initial project aims and objectives were.

10. Recommendations

It is good research practice to make recommendations or to suggest directions for further research or actions as a result of your project findings.

11. References

This is a list of all the references and sources you used in your literature review, methodology and discussion. This includes books, journal articles, abstracts, conference and symposium papers, media articles, and any form of published literature or comment.

12. Appendices

This section may contain copies of any questionnaires if any or evaluation instruments used covering letters, participant information and ethics approvals, or additional explanations.

Project Report
On

BUSINESS INTELLIGENCE TOOL FOR ACCOUNTING

Submitted By:
Juily Mahesh Upkare
1911056

Under Guidance of
Prof Minakshi Tumsare

MAHARASHTRA EDUCATION SOCIETY'S
INSTITUTE OF MANAGEMENT & CAREER COURSES (IMCC)
MCA Programme Accredited by National Board of Accreditation (NBA)

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Ref. No. MES IMCC / 006-A/ 2021 – 22/ **Date: 14/03/2022**

CERTIFICATE

This is to certify that the Project Report entitled

BI tool for accounts

is prepared by

UPKARE JUILY M.

M.C.A. Semester V Course for the Academic Year 2021-22 at M.E. Society's Institute of Management & Career Courses (IMCC), Pune - 411038.
M.C.A Course is affiliated to Savitribai Phule Pune University.

To the best of our knowledge, this is original study done by the said student and important sources used by him/her have been duly acknowledged in this report.

The report is submitted for the Academic Year 2021-22 as per the rules & prescribed guidelines of Savitribai Phule Pune University.

Dr. Ravindra Vaidya
HOD, Computer Dept. IMCC

Dr. Santosh Deshpande
Director, MES IMCC

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Chapter 1

1. Introduction:

In the current business scenario use of digital tools have become crucial. Upcoming domains like Business Intelligence, Artificial Intelligence, Machine Learning, NLP, etc. are helping companies improve the quality of their decision making.

Business Intelligence helps companies monitor trends, adapt to varying market conditions, and improves decision making at all levels of the organization. The BI tool a company uses depends on their goals. Some companies are interested in gaining insights into consumer buying other companies are interested in improving employee productivity or seeing who the best performers are. There are an infinite number of ways companies can deploy a business intelligence solution. Some Key Benefits of using Business Intelligence are Fast and accurate reporting, Valuable Business Insights, Identifying Market Trends, Improved accurate decisions.

Business Intelligence Tool for Accounts is a web based application which is used to display data visualizations of the accounting data. The web application looks at the same data with different perspectives which adds meanings to the accounting data and helps the user take a better informed decision.

1.1 Company Profile

This project does not belong to any company.

1.2 Abstract

The current accounting system does not have data visualization feature and also the budgeting feature was missing. Objective of the system is to create a generic BI tool for any accounting system based on universal standards. The users would map data required by BI tool with their data from accounting system. User will now enter budgets for all expense heads imported from accounting system. The transactions for the time period selected by the user will then be imported at regular intervals. Data visualizations are then generated on such imported data. Budget variance visualization is generated as a comparison between master data entered by the user and summary of transactions imported.

1.3 Existing System and Need For The System

All existing accounting software have only financial reports so reports are required to export data to excel and create data visualization manually. This process is prone to errors and is very time consuming. This gives birth to idea of the proposed system.

Need For System

- To get better interpretation of data which will lead to better business decisions and eventually profit oriented business strategies.

- Any existing accounting system normally generates reports based on accounting principles and regulatory compliances. There is no provision to generate data visualization required for business decisions. Such things are then done manually in the company as and when required. This process is time consuming and prone to errors.

- Absence of budgeting in accounting system made the users calculate budget variance manually which is again time consuming and prone to errors.

- Highly competitive business environments make a company look at the accounting data with a 360^0 view.

1.4 Scope of System

- To do data mapping that is to bridge the differences between two systems or data models so that when data is moved from a source, it is accurate and usable at the destination.

  Data mapping includes the following:

  - Sales and Purchase Data: The sales/purchase, respective master data from original accounting system is mapped to the denormalized design in this application.
  - Expense Heads Data: The expense heads data are mapped to budget table in this application.

- Importing data in system which will help us to organize, clean, analyze data and act upon this unified data view in ways that are better aligned with your specific and unique business needs.
  - In this process date filter will be provided so that the user can choose to import data from original accounting system to this system as and when required.

- To create filterable dynamic data visualization which makes it easier to identify and share real-time trends, outliers, and new

insights about the information represented in the data with different dimensions and perspectives.

1.5 Operating Environment

- **Hardware Platform:**

  Microprocessor: Core 3 and above
  RAM: 2GB and above
  HDD: 4GB and above

- **Software Platform:**

  Frontend: Python with Django Framework

  Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or

binary form without charge for all major platforms, and can be freely distributed.

Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It's free and open source. Django was designed to help developers take applications from concept to completion as quickly as possible. It takes security seriously and helps developers avoid many common security mistakes.

Operating System: Windows 8.1 and above, Linux

Web Browser: Google Chrome

1.6 Brief Description of Technology Used

1.6.1 Operating System: Windows 8.1

Windows 8.1 is an operating system designed by Microsoft. Windows 8.1 is very similar to Windows 8, but it addresses some of the problems people had with Windows 8. The load and boot up speed have improved considerably over Windows' predecessors. This is moderately due to the enhanced resource allocations to the

applications and the system. When compared to Windows 8 desktop CPU, Windows 8 .1 has an even speedier boot time.

The safety is the main concern for any operating system. Windows 8.1 makes the best of security. The authentication method of the windows is provided by two ways by PIN and the picture passwords. Windows 8.1 is the most secure version of Windows yet.

Windows defender and also the smart screen filtering makes Windows 8.1 operating system to run without antivirus from the third vendors and booting is also secured.

1.6.2 Database: MySQL

MySQL is an Oracle-backed open source relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL runs on virtually all platforms, including Linux, UNIX and Windows. Although it can be used in a wide range of applications, MySQL is most often associated with web applications and online publishing.

MySQL is based on a client-server model. The core of MySQL is MySQL server, which handles all of the database instructions (or commands). MySQL server is available as a separate program for use in a client-server networked environment and as a library that can be embedded (or linked) into separate applications.

Chapter 2

2. Proposed System

2.1 Study of Similar System

Similar system doesn't exist and this system is fulfilling a gap in the current offerings of such accounting system. These accounting systems provide all accounting and compliance reports. But business decisions require a different perspective of the data so that the insights can assist in decision making and strategy formulation. These are generally found as visualizations in a high end business intelligence application with very high license in fees and complex, time consuming implementation cycle. This application attempts to plug-in the gap in current offerings of the accounting systems by enabling visualization on the existing accounting data, thereby providing different, useful insights for decision support.

2.2 Feasibility Study

1. **Executive Summary:**

   This project is about building a web application for generation of data visualization and budget variance. Python and Django framework are both open source and free even for commercial use. Hence no investment is required to create the application in

Django. MySQL used as the database in this application is also open source and free.

- As Django framework in python will be used to create this web application, so it will be scalable, secure since security is a major concern in accounting data, and has a wide variety of data visualization libraries available to create interactive charts and dashboards.
- Since Django is scalable it can easily cater to increasing number of application users.
- The database of the system will be in denormalized form therefore no joins will be used for query creation resulting in faster data extraction and results.
- Users are already well versed in accounting terminology and analytical reports. Hence minimal amount of training will be required.
- Mapping requires knowledge of the database design of the original software and the IT team is well conversant with this.

This web application is an affordable way to do activities in the scope as it only requires an internet browser and account creation in the application.

2. Background:

Drawbacks of the existing system are:

- Slow processing due to older technology.
- Prone to errors and time consuming as the data will be first imported in excel and then data visualizations are created manually.
- No provision to set budget.

The investigation was done to know the problems that are demanding a Modern solution and other modern ways to perform the smooth processes in shorter time that are required for decreasing the loss of time of the organization and increasing profit with the increase in ability to respond proactively to the market competitors.

The study and research have been provided to increase the efficiency and productivity of the users of the system.

3. Purpose:

The feasibility study is needed to be done as it finds out the possible methods of dealing with problems that may arise during implementation of this application along with the overall idea of a system and its assessment whether it is favorable for the Organization.

Purpose of this system:

- To create visualization for the accounting data.

- To simplify the process of generating visualization while making it accurate and fast.
- To provide the users and option to enter the budget for expense heads.
- To generate a budget variance (budgeted vs. actual).

4. Research:

- The analysis process comprised of focused discussion with the admin and other users of the existing system.
  - Discussions were held with the senior management to understand their requirements about data visualization.
- Study of the existing manual process.
- Problems in the existing system.
- Requirements about budget were discussed with the key decision makers in the accounts.

The following point serves the processes and methodologies of proposed system:

User Administration:

- The default user of the application will be “Admin”.
- Mapping is only allowed for the admin user.

- The admin will then create further users in the application and assign appropriate access rights to various features in the application.
- The users will then login using credentials set up by the admin.

5. **Alternative Solution:**

   Using 3rd party tools: One of the alternative solutions is to use 3rd party tool like excel or power BI. The main limitation of these 3rd party tools is their inability to use normalized database for generation of flexible visualization. The can only generate static charts. And additional point is their cost of licensing.

6. **Recommendation:**

   In light of drawbacks of alternative solution, the web application to be made in Django is a simple, cost effective, flexible, scalable and fast performing solution.

7. **Conclusion:**

   The proposed web application is the best solution considering all feasibility parameters.

2.3 Objectives of Proposed System

- To allow admin the feature of user administration that is to allow admin to create user and assign appropriate access rights.
- To map existing applications normalized database to denormalized database of the proposed application.
- To import data from existing system at any specific interval.
- To generate visualizations based on customers, suppliers, items and expense heads dimensions.
- To generate budget variance.

2.4 Users of System

- **Admin:**

  Admin is the super user of the system with access to all features in the web application. Admin can perform operations on the system like creation of new users, marking users inactive, assigning appropriate access rights, mapping the existing applications normalized database in the web applications denormalized database, import data and generate visualizations as and when required.

- **Accounts :**

  Users of Accounts department will be able to import data for a specific period, set and modify budget per expense head,

create expense head dimension's visualization, generate budget variance as per the access rights assigned by the admin.

- **Sales :**

  Both the user and the managers of sales department will be able to import data for a specific time (if needed), generate visualizations based on the customers and items dimensions as per access rights assigned by admin.

- **Purchase:**

  Both the user and the managers of purchase department will be able to import data for a specific time (if needed), generate visualizations based on the suppliers and items dimensions as per access rights assigned by admin.

- **Top Management:**

  Top management will have all the rights similar to admin except database mapping, budget entry and importing of data. Item dimension visualization for top management will also include an additional analytical view point of profit.

Chapter 3

3. Analysis and Design

3.1 System Requirement

3.1.1 Functional Requirements:

- Creation of users.
  Admin will create users.
- Assigning access rights.
  Admin will give access rights according to users department.
- Stores user administration data.
  Data of users will be stored in database.
- Mapping of existing applications normalized database with this applications denormalized database.
  Admin will map required data with this application's database.
- Store mapping masters.
  Admin will store mapped data in database.
- Set budget per expense heads.
  Admin and accounts department user will set budgets of expense heads.
- Store budget master.

Data will be stored in budget master.

- Importing of data for the user given time period.
  Data for the given date range will be imported by the users.
- Store data for sales, purchase, items, expense heads in the denormalized tables.
  Imported data will be stored in database.
- Generation of sales visualization.
  Sales wise visualization will be generated.
- Generate purchase visualization.
  Purchase wise visualization will be generated.
- Generate item visualization.
  Item wise visualization will be generated.
- Generate Expense head visualization.
  Expense wise visualization will be generated.
- Generate budget variance.
  Budgeted Vs Actual visualization will be generated.

3.1.2 Non-Functional Requirements:

- Performance Requirement:
  System should run 24/7.

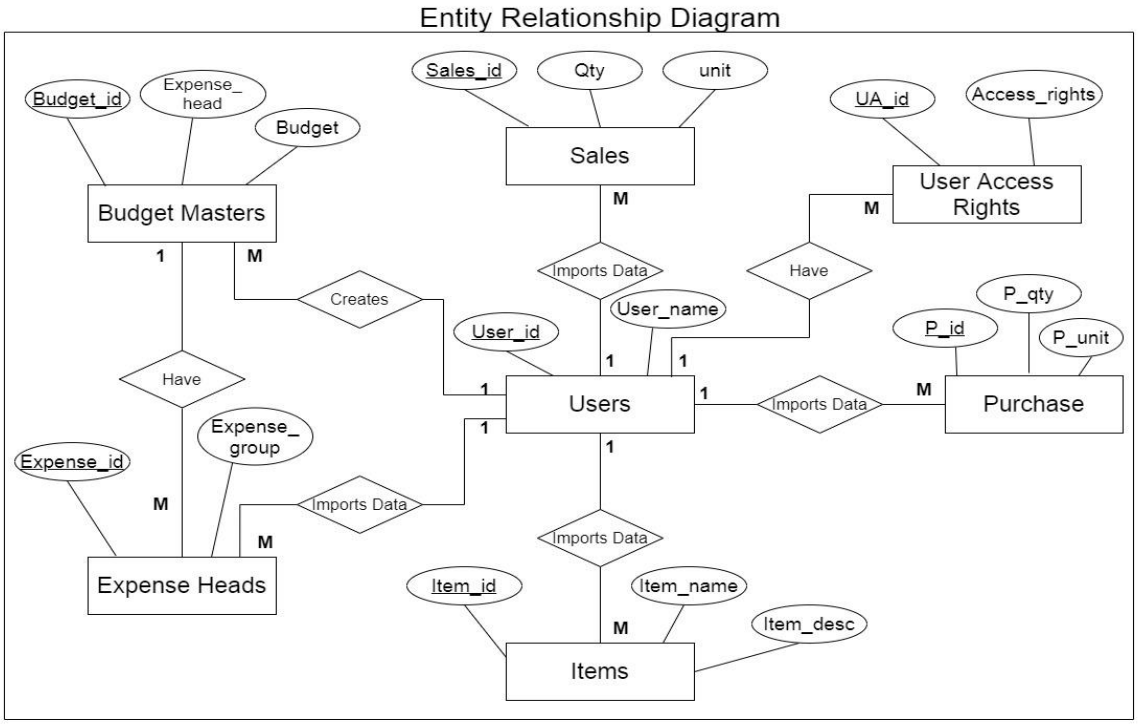
- Safety Requirement:
  Database backup is taken once in a day through scheduled database task in the inactive hours.

- Security Requirement:

  Only authorized users can access the system.

- Software Quality Attributes:
  - It is reusable.
  - It is accurate, reliable and Flexible.
  - It is user friendly and fast in operations.

3.2 Entity Relationship Diagram



3.3 Table Structure

Sales

Field Name	Data Type	Constraint
Sales_Id	Integer	Primary Key
Customer_name	Varchar	Not Null
Customer_category	Varchar	Not Null
Invoice_no	Varchar	Not Null
Invoice_date	Date	Not Null
Line_no	Integer	Not Null
Item_name	Varchar	Not Null
Item_desc	Varchar	Not Null
Qty	Integer	Not Null
Unit	Varchar	Not Null
Rate	Double	Not Null
Amount	Double	Not Null
Cust_Order_no	Varchar	Not Null
Cust_Order_date	Date	Not Null
HSN	Integer	Not Null
GST %	Varchar	Not Null
Item_category	Varchar	Not Null
Document_type	Varchar	Not Null
User_id	Integer	Foreign Key
Import_date	Date	Not Null

Purchase

Field Name	Data Type	Constraint
Purchase_Id	Integer	Primary Key
Supplier_name	Varchar	Not Null
Supplier_category	Varchar	Not Null
Invoice_no	Varchar	Not Null
Invoice_date	Date	Not Null
Line_no	Integer	Not Null
Item_name	Varchar	Not Null
Item_desc	Varchar	Not Null
Qty	Integer	Not Null
Unit	Varchar	Not Null

Rate	Double	Not Null
Amount	Double	Not Null
Supp_Order_no	Varchar	Not Null
Supp_Order_date	Date	Not Null
HSN	Integer	Not Null
GST %	Varchar	Not Null
Item_category	Varchar	Not Null
Document_type	Varchar	Not Null
User_id	Integer	Foreign Key
Import_date	Date	Not Null

Item

Field Name	Data Type	Constraint
Item_Id	Integer	Primary Key
Item_name	Varchar	Not Null
Item_category	Varchar	Not Null
Invoice_no	Varchar	Not Null
Invoice_date	Date	Not Null
Transaction_type	Varchar	Not Null
Item_desc	Varchar	Not Null
Qty	Integer	Not Null
Unit	Varchar	Not Null
Rate	Double	Not Null
Amount	Double	Not Null
Supp_Cust_name	Varchar	Not Null
Supp_Cust_Category	Varchar	Not Null
HSN	Integer	Not Null
GST %	Varchar	Not Null
Document_type	Varchar	Not Null
User_id	Integer	Foreign Key
Import_date	Date	Not Null

Expense

Field Name	Data Type	Constraint
Expense_Id	Integer	Primary Key

Expense_head	Varchar	Not Null
Expense_group	Varchar	Not Null
Document_no	Varchar	Not Null
Document_date	Date	Not Null
Document_type	Varchar	Not Null
Narration	Varchar	Not Null
Amount	Double	Not Null
Budget	Double	Not Null
User_id	Integer	Foreign Key
Import_date	Date	Not Null

Budget Master

Field Name	Data Type	Constraint
Budget_Id	Integer	Primary Key
Year_from	Date	Not Null
Year_to	Date	Not Null
Expense_head	Varchar	Not Null
Budget	Double	Not Null
Date	Date	Not Null
User_id	Integer	Foreign Key

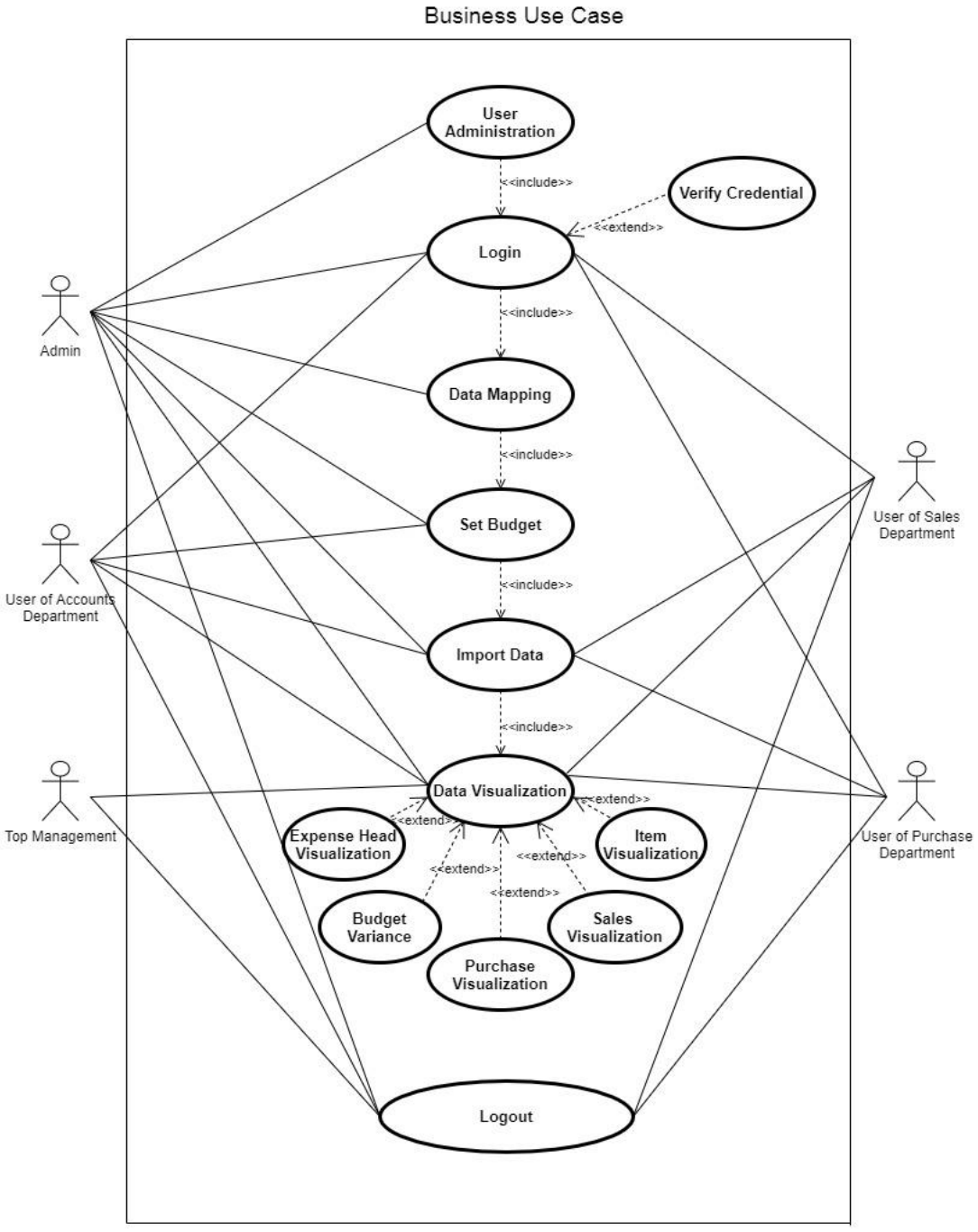
User

Field Name	Data Type	Constraint
User_Id	Integer	Primary Key
User_name	Varchar	Not Null
Password	Varchar	Not Null
Expense_head	Varchar	Not Null
Role	Varchar	Not Null
Department	Varchar	Not Null

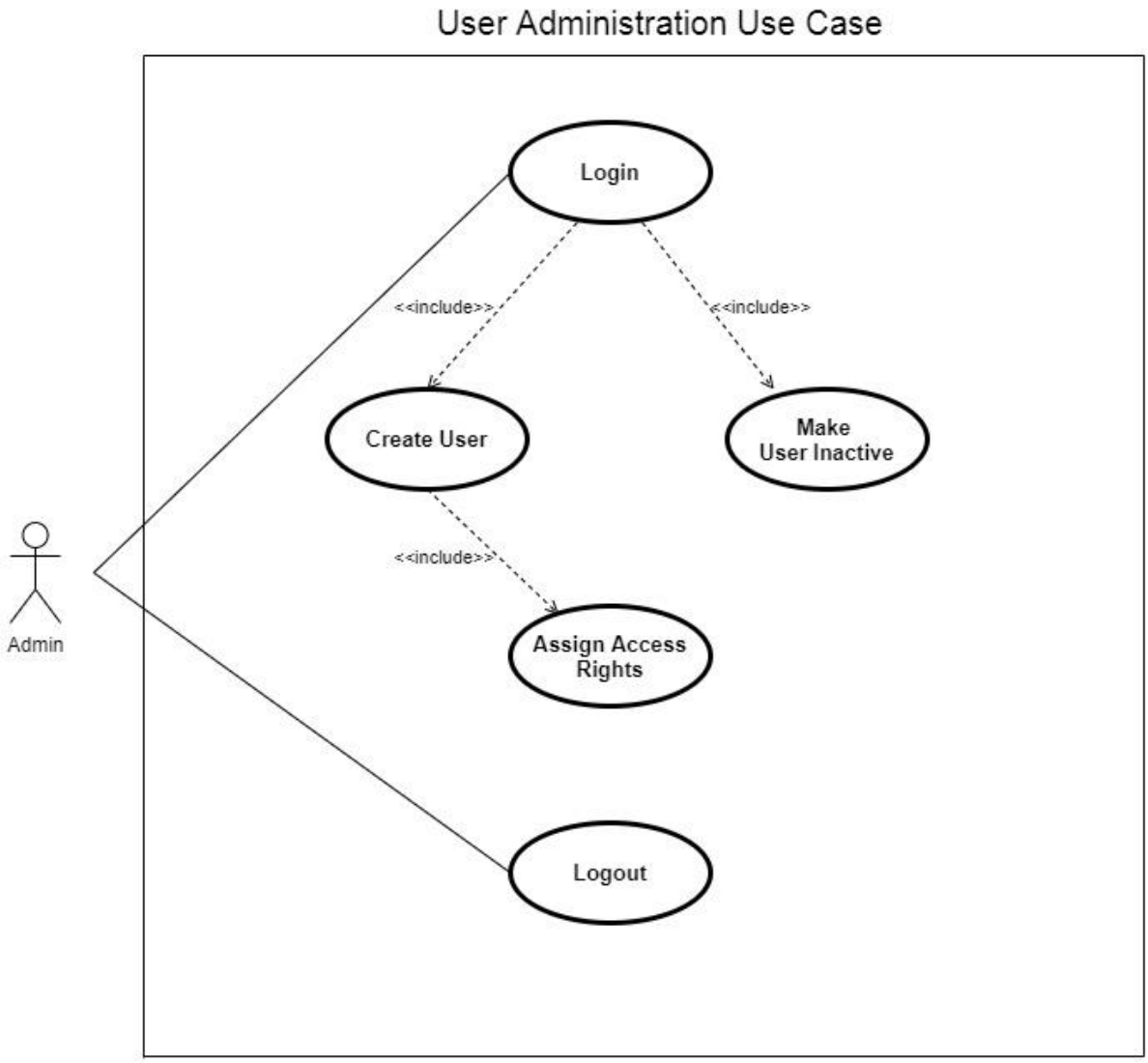
User Access

Field Name	Data Type	Constraint
UA_Id	Integer	Primary Key
Url	Varchar	Not Null
Access_right	Varchar	Not Null
User_id	Integer	Foreign Key

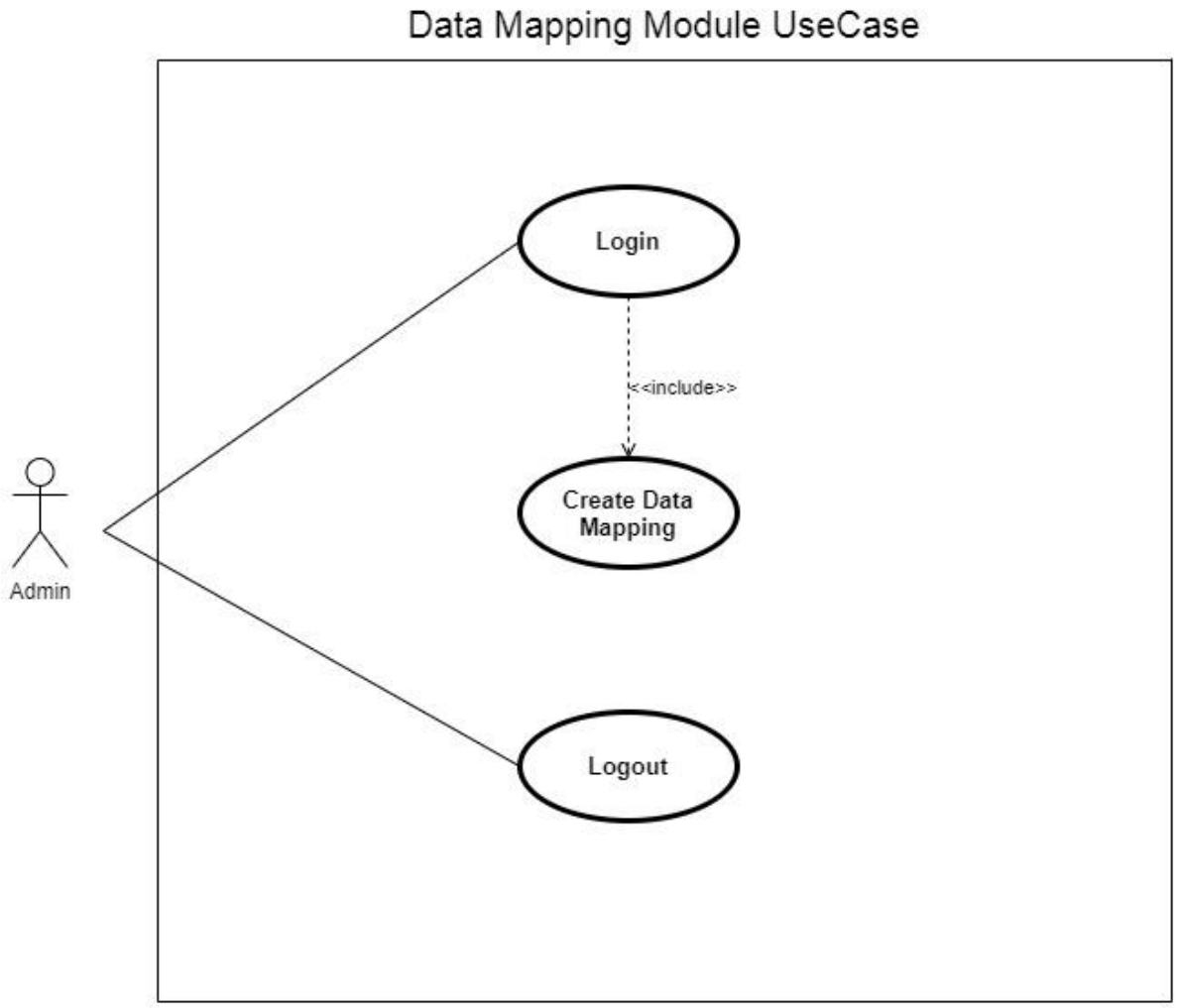
3.4 Use Case Diagram



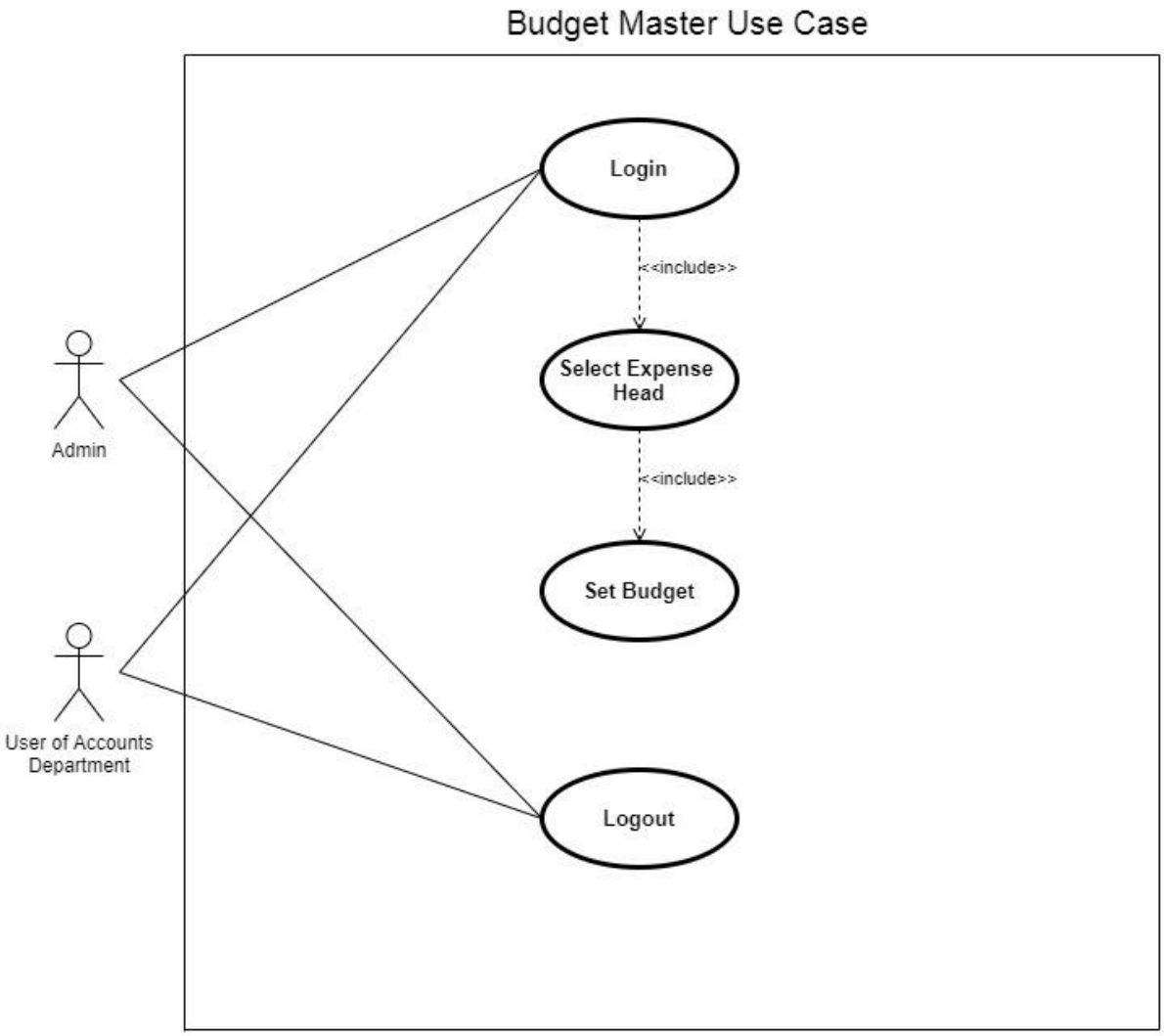
User Administration Module



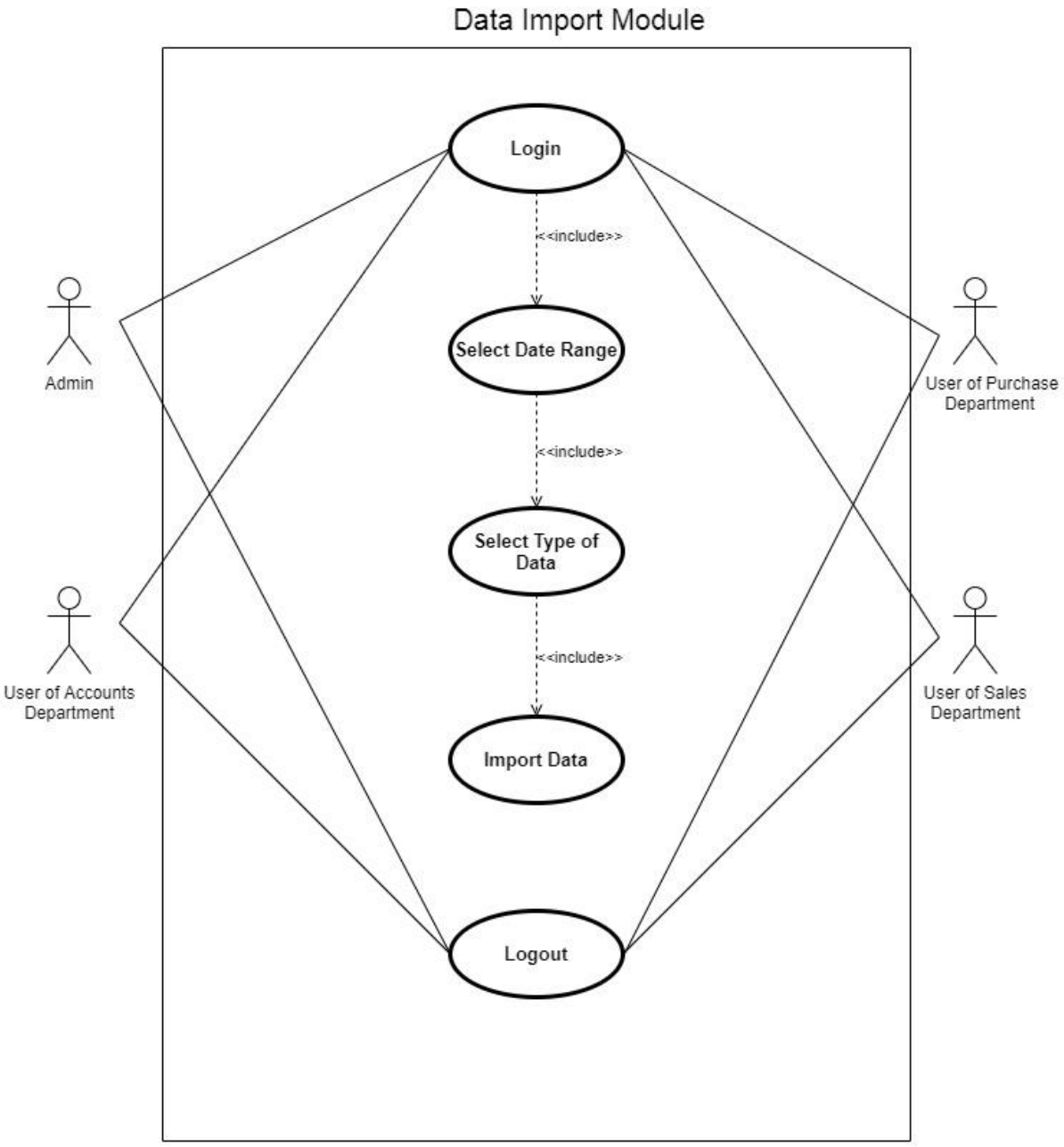
Data Mapping Module



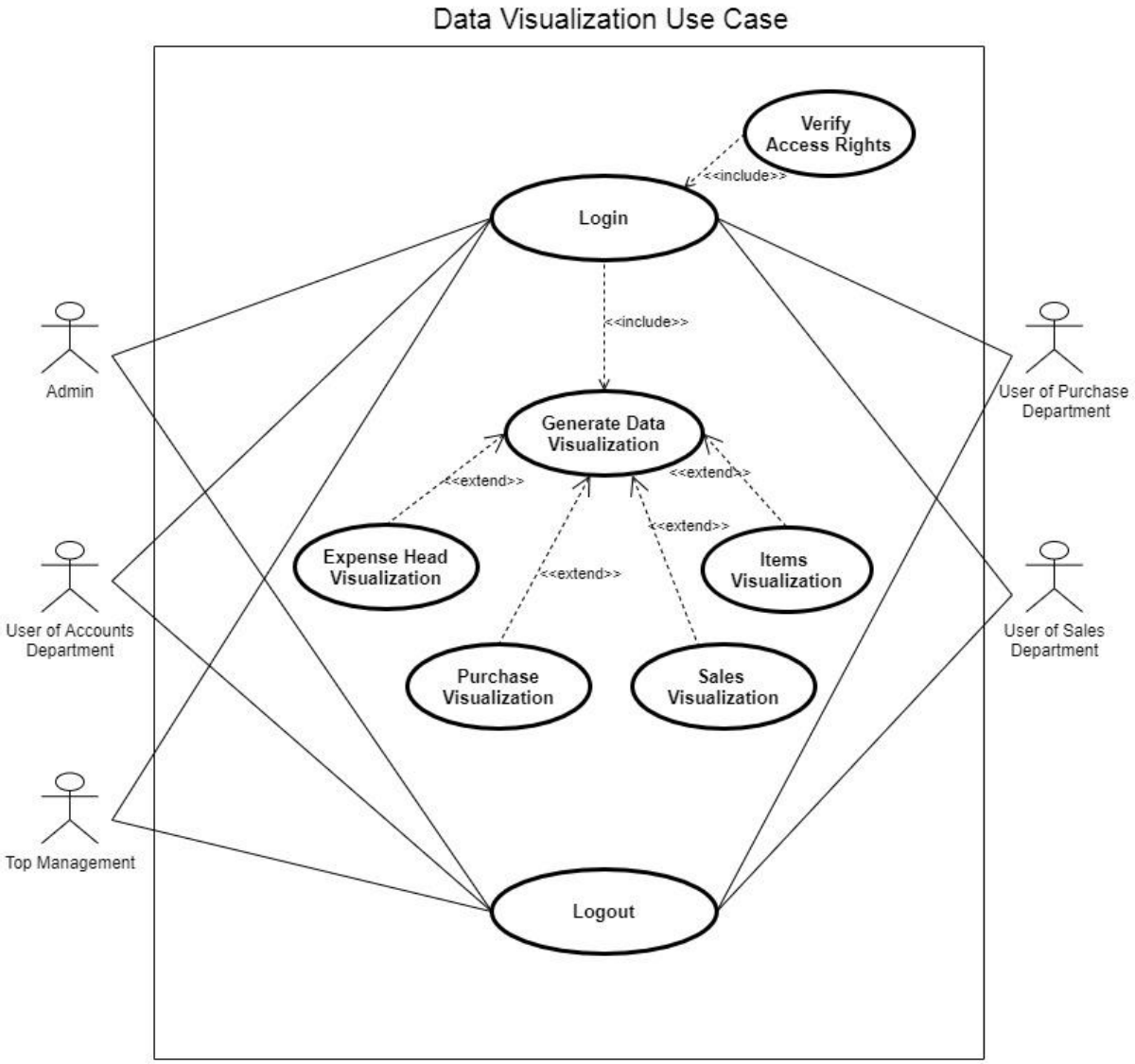
Budget Master Module



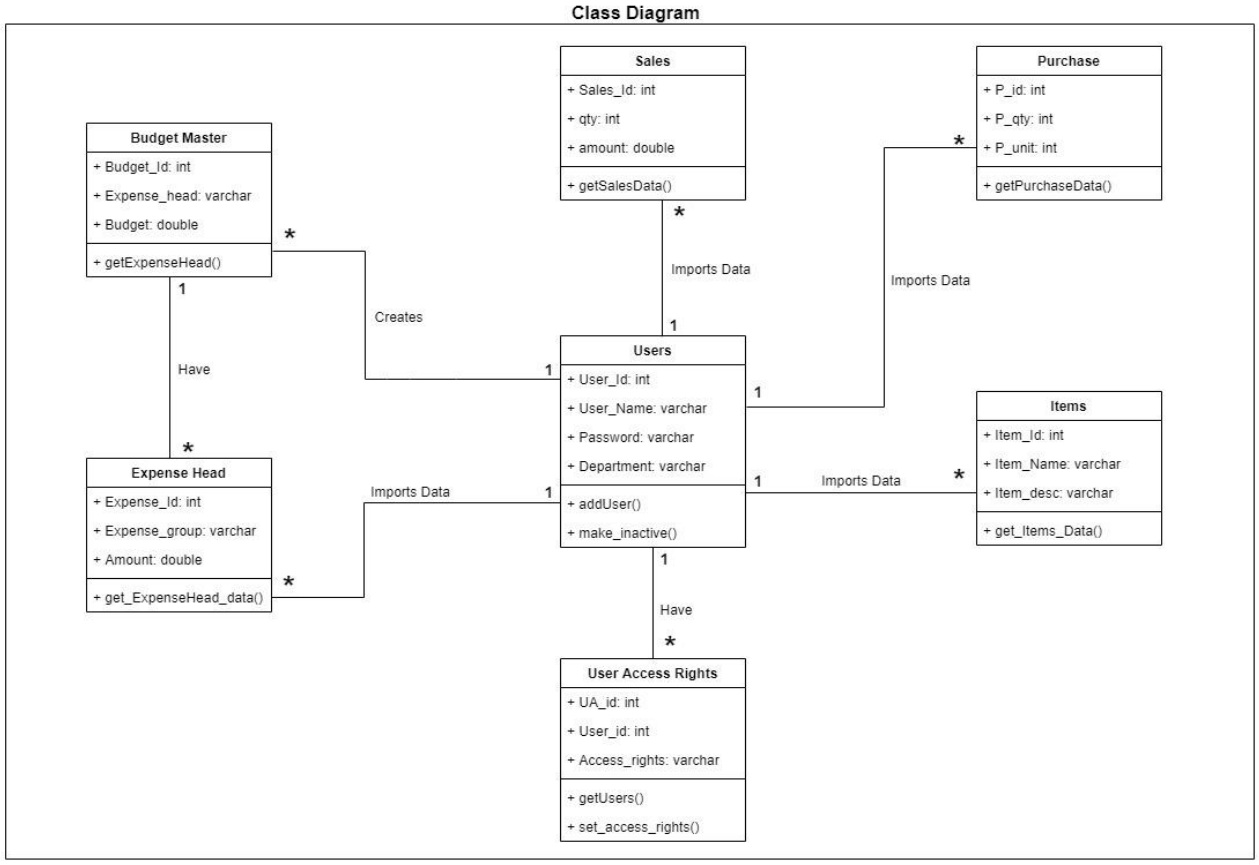
Data Import Module



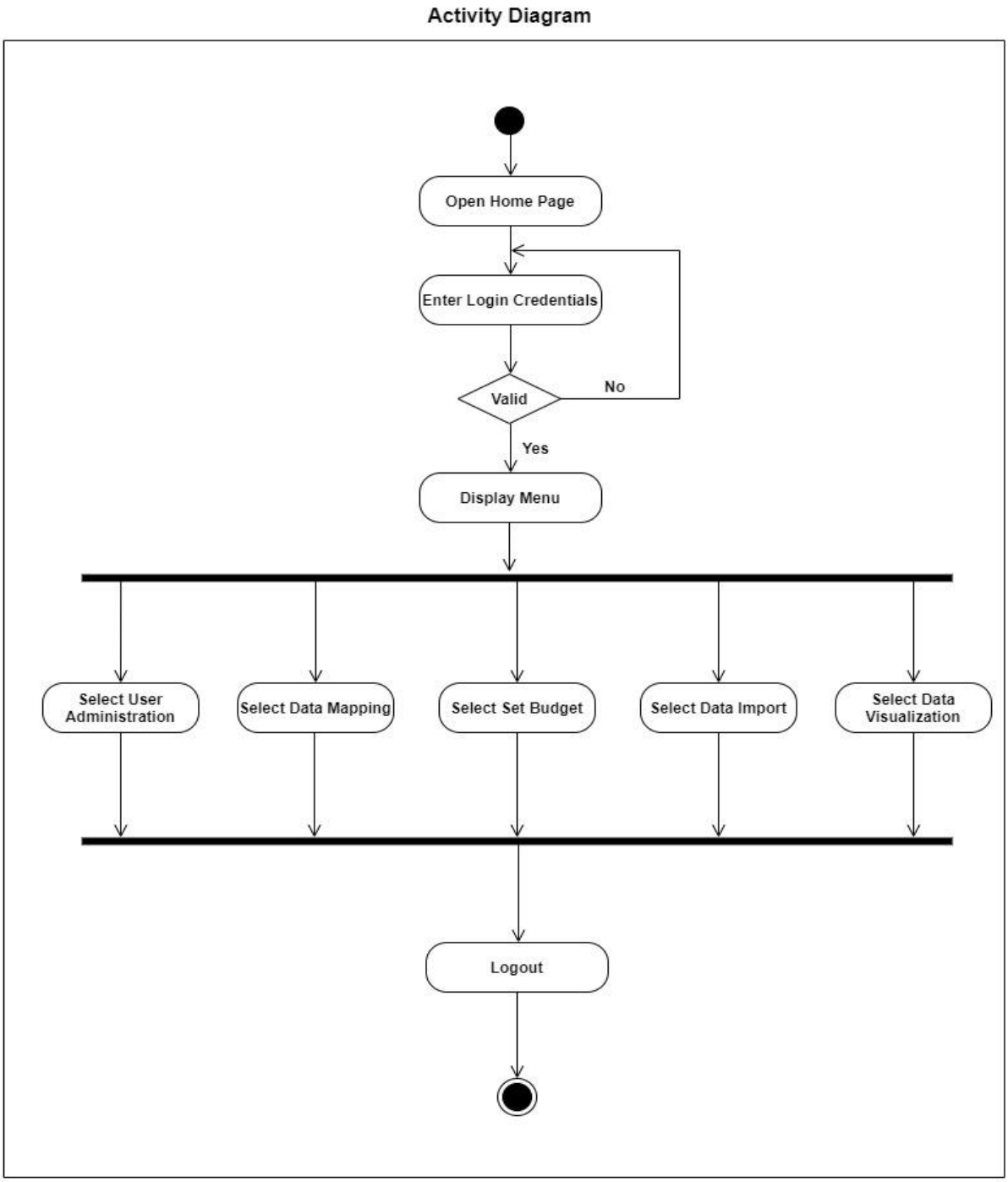
Data Visualization Module



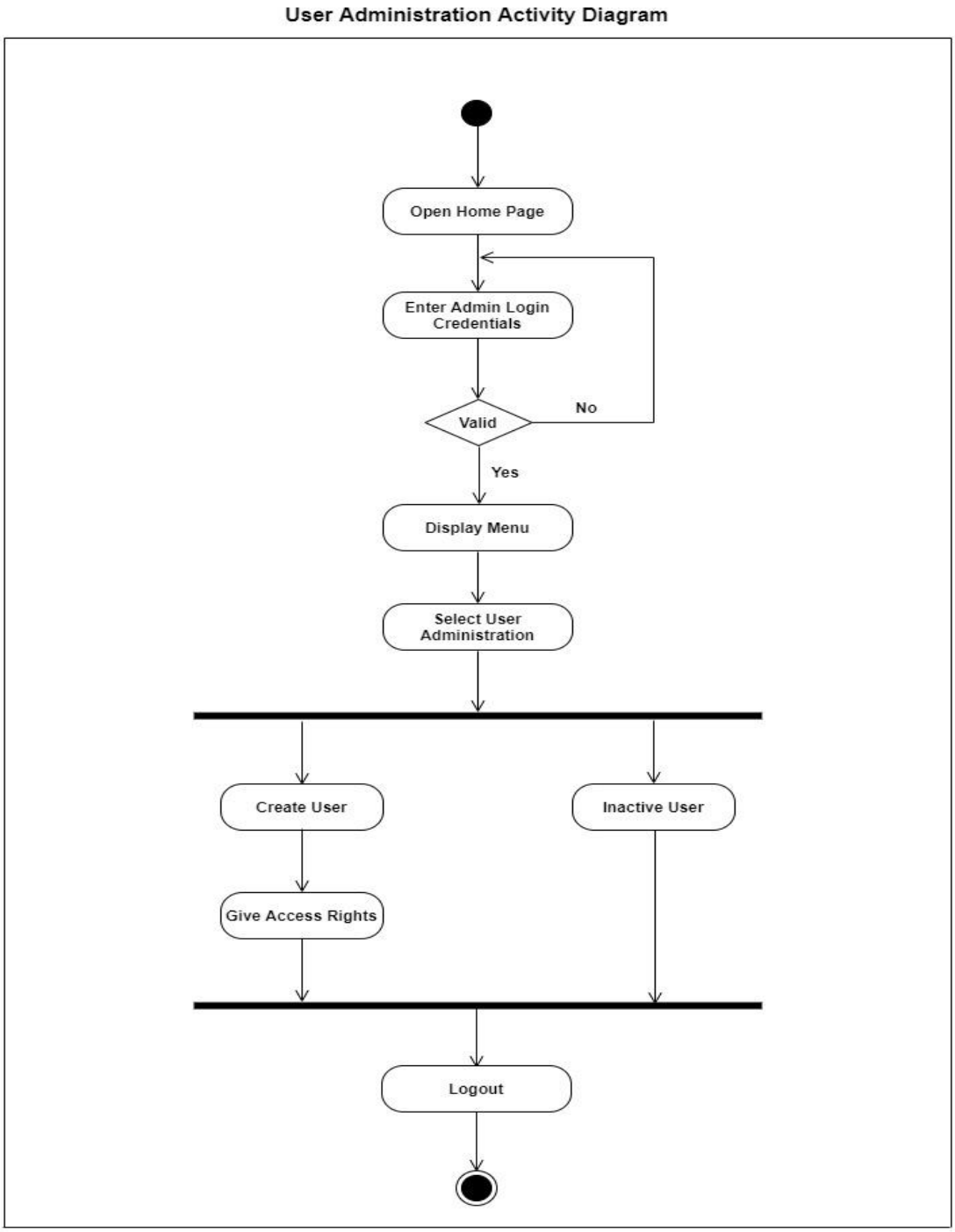
3.5 Class Diagram



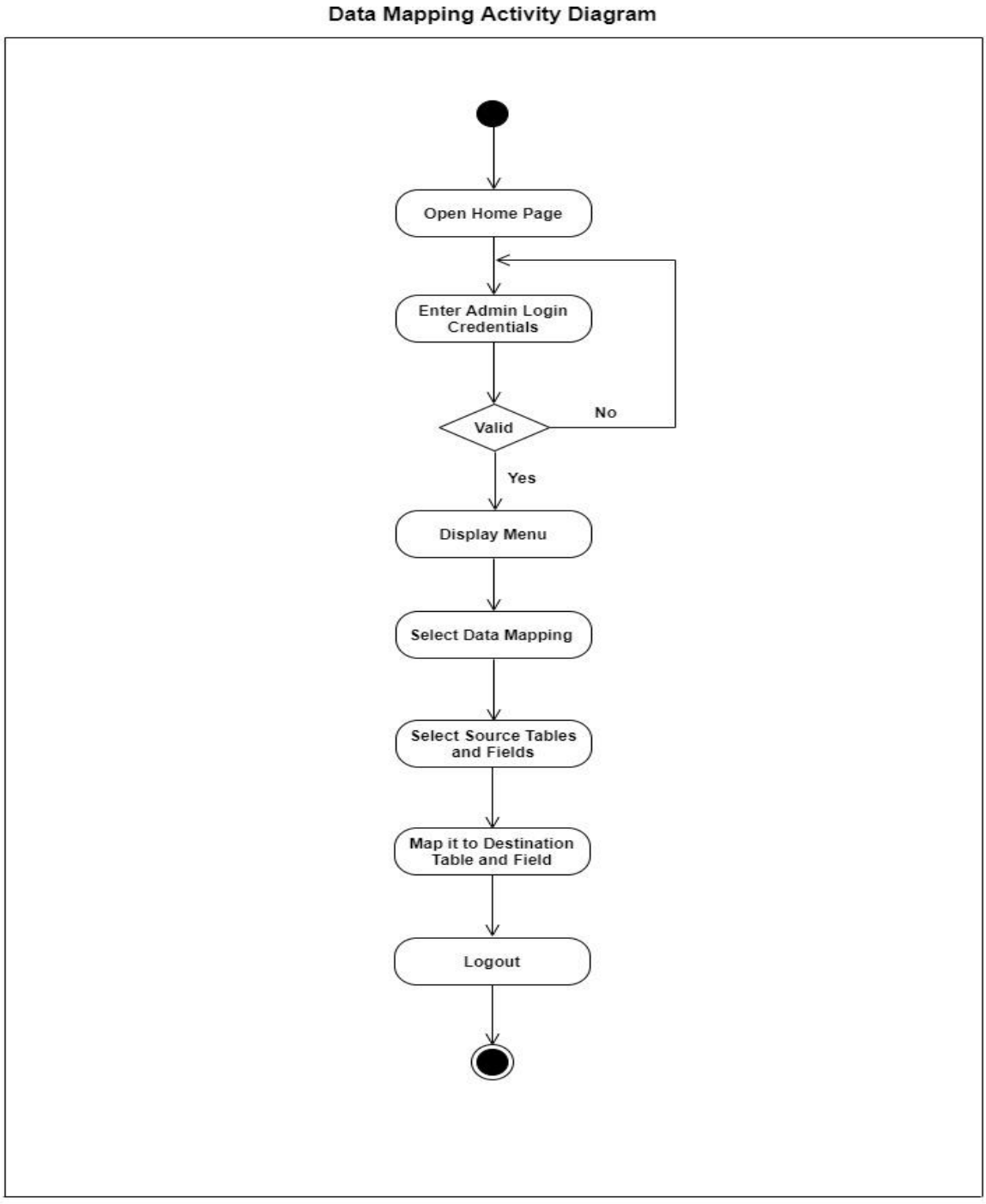
3.6 Activity Diagram



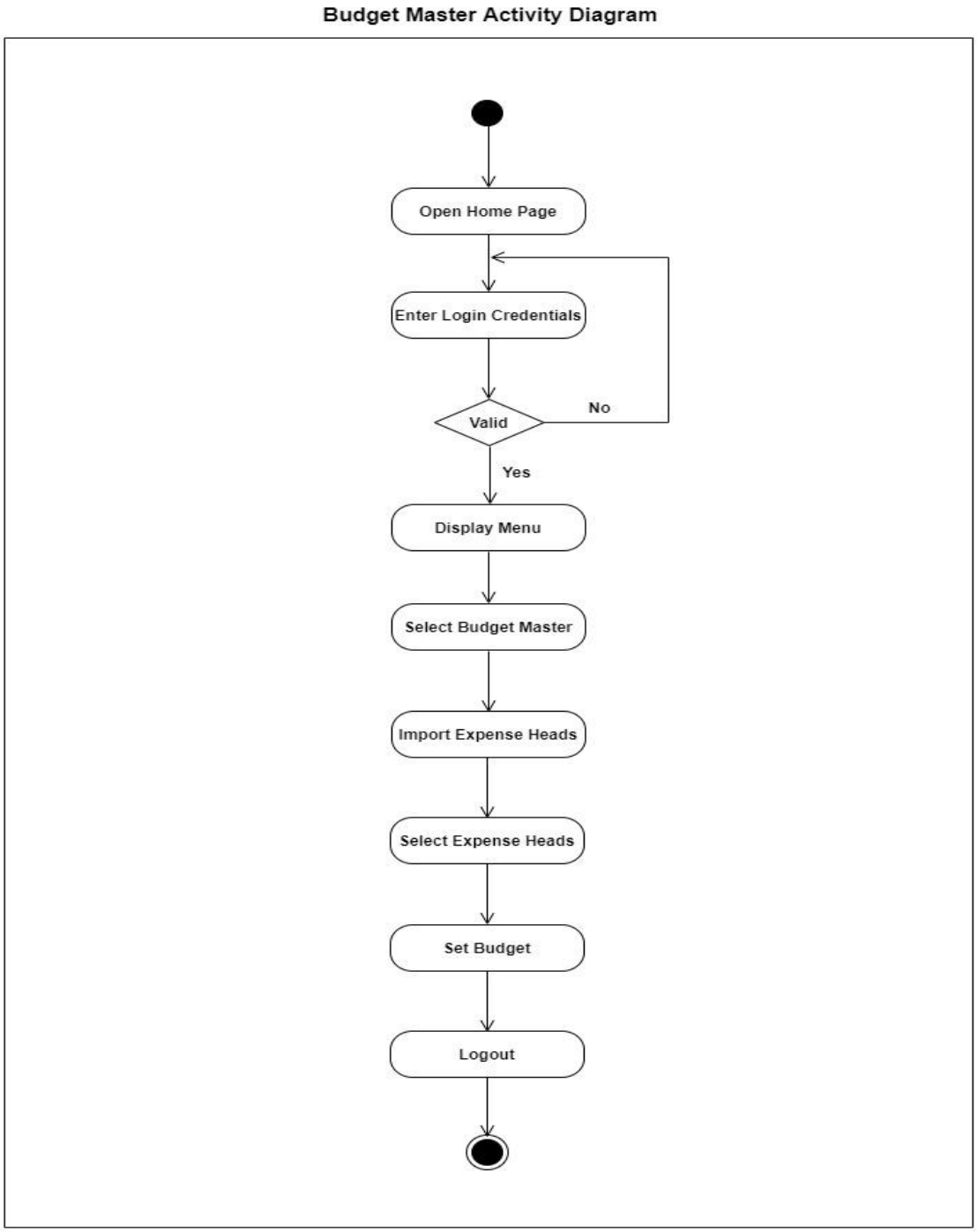
User Administration Module



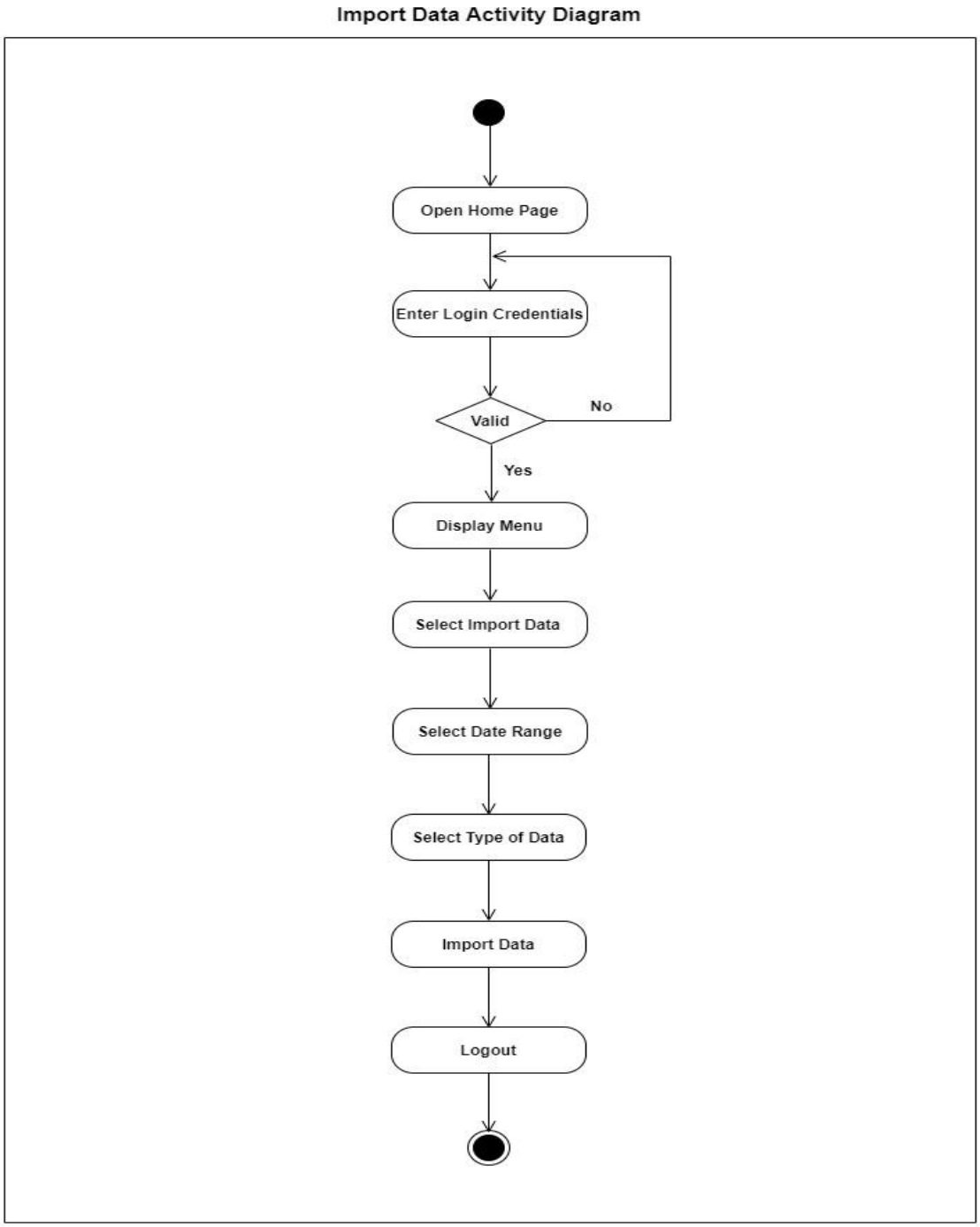
Data Mapping Module



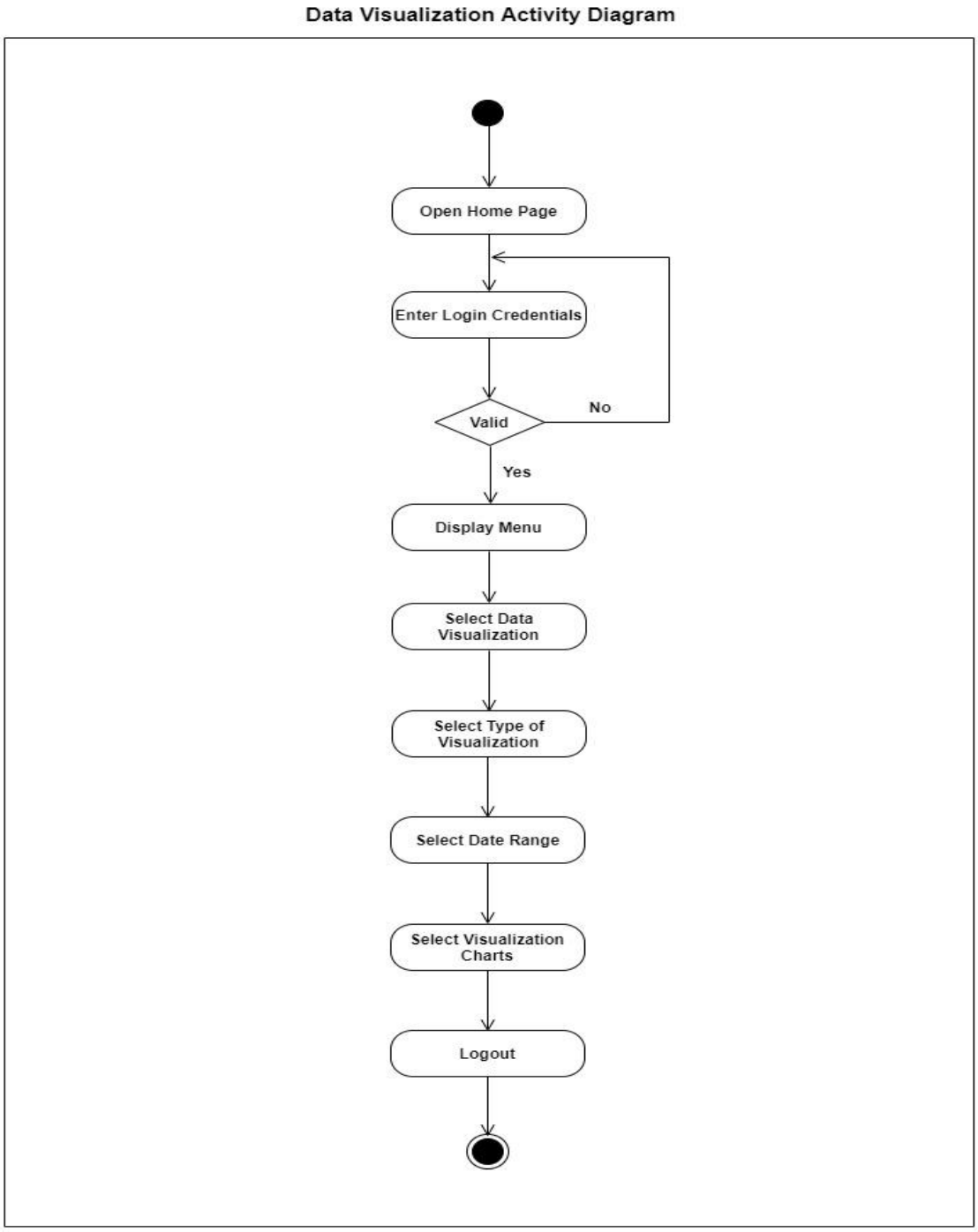
Budget Master Module



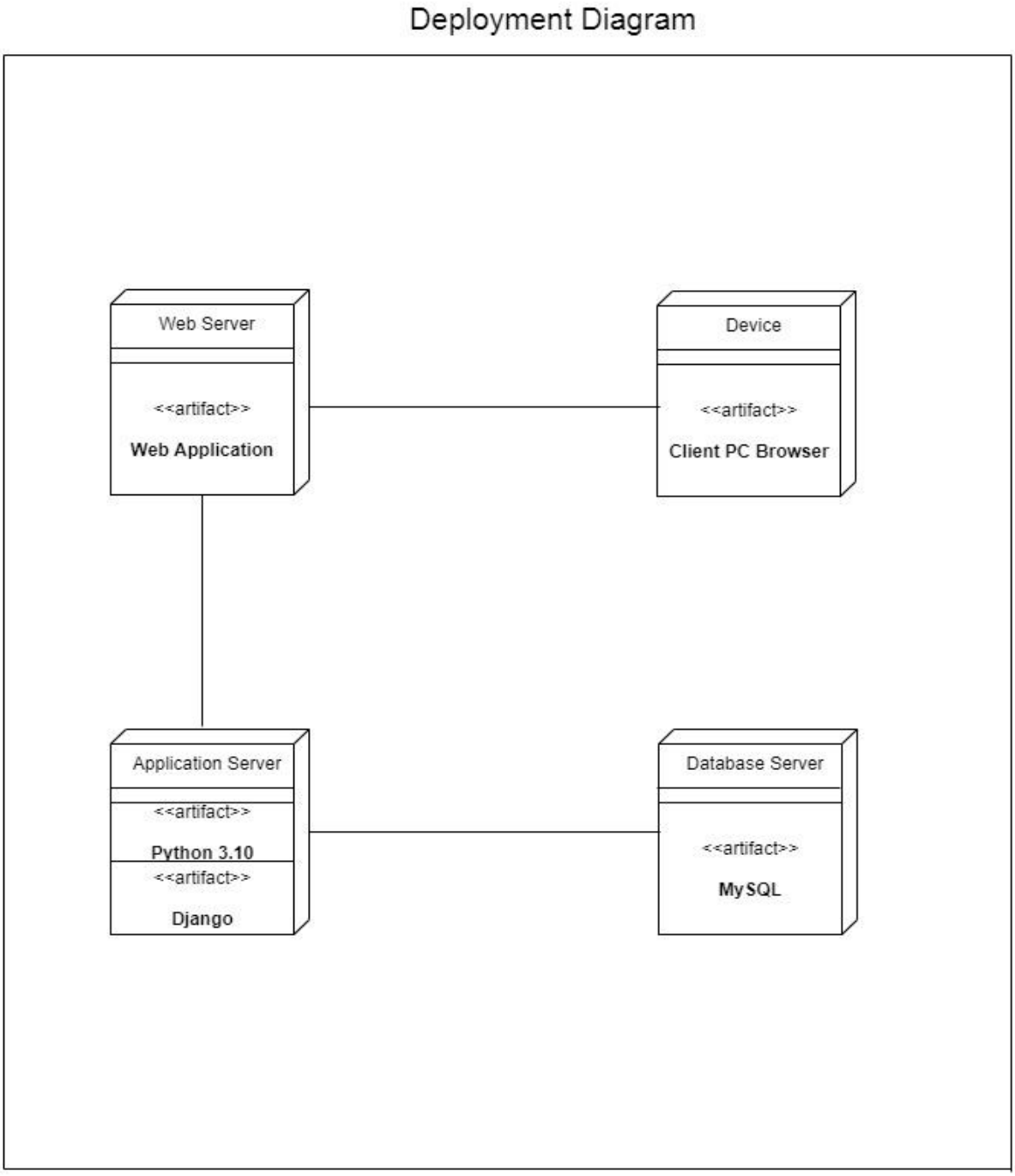
Import Data Module



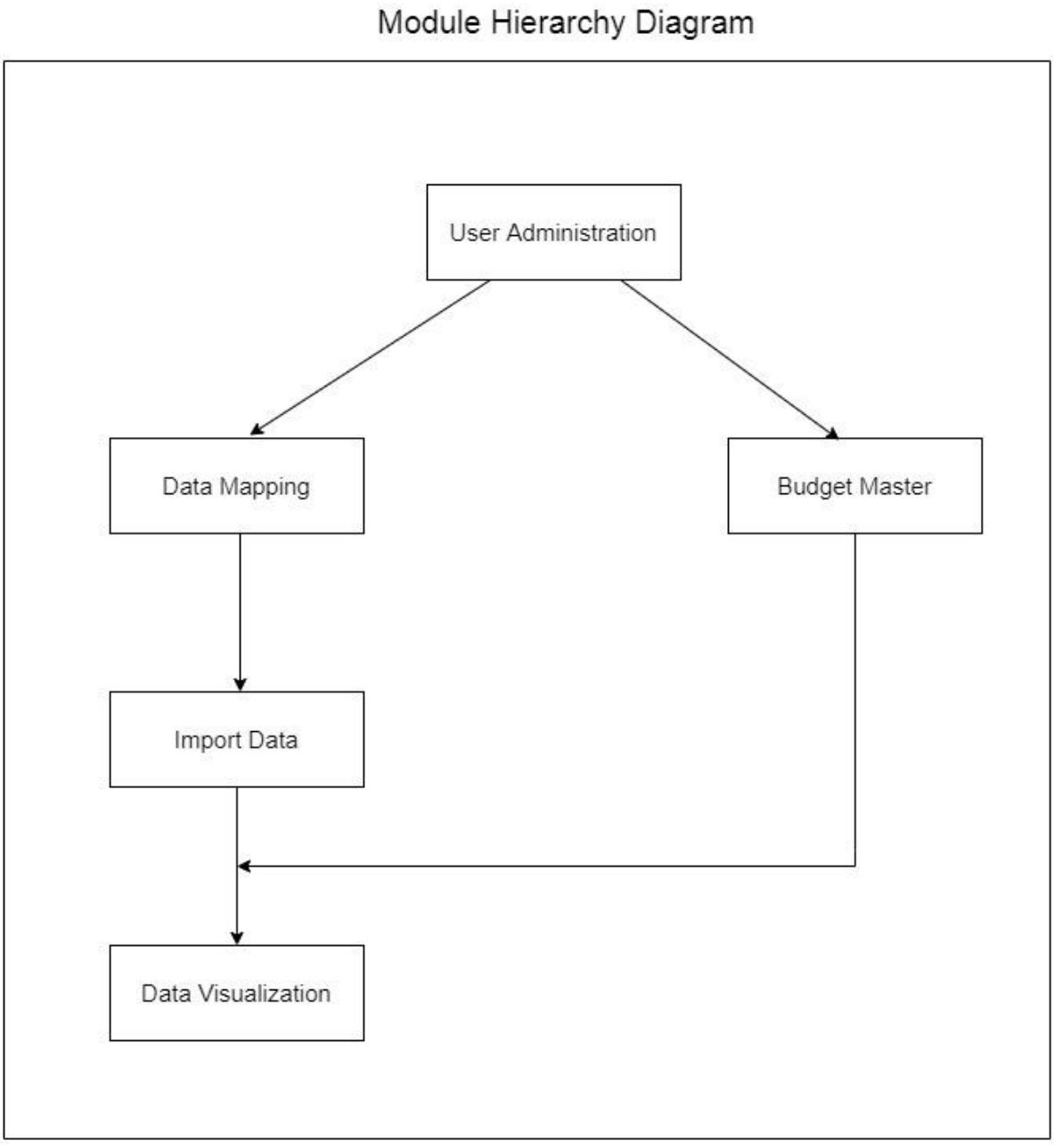
Data Visualization Module



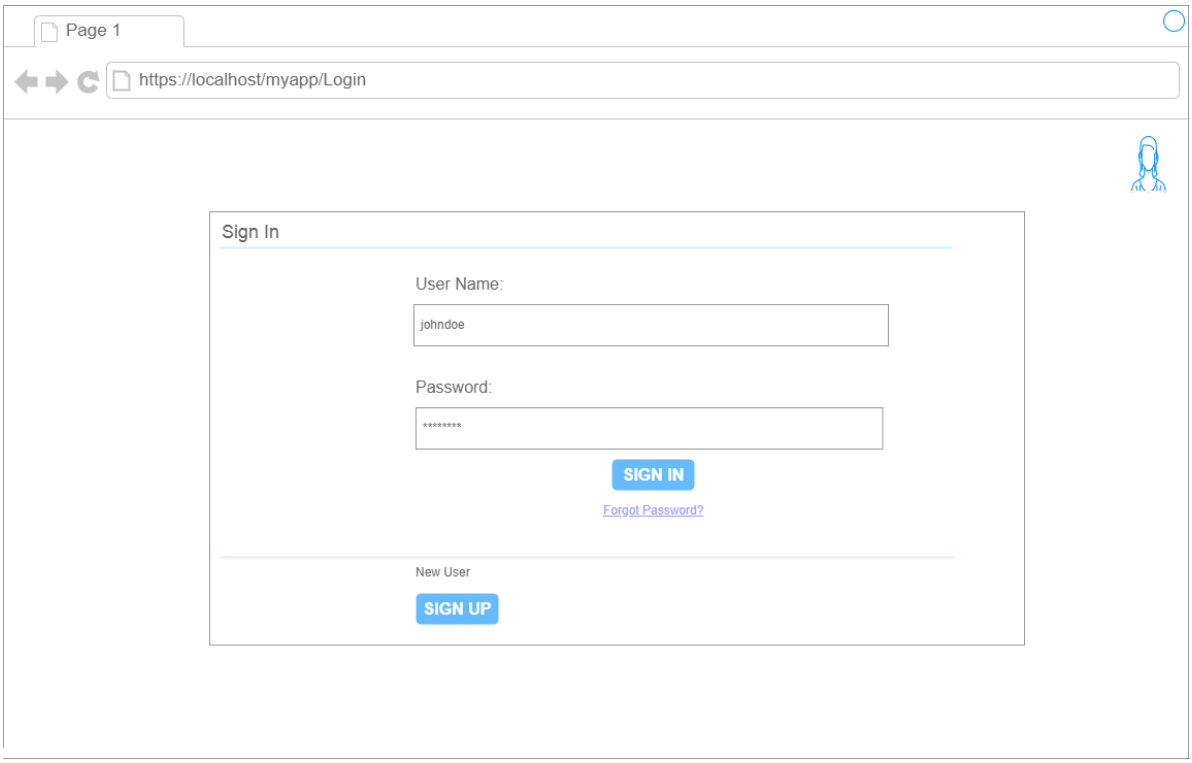
3.7 Deployment Diagram

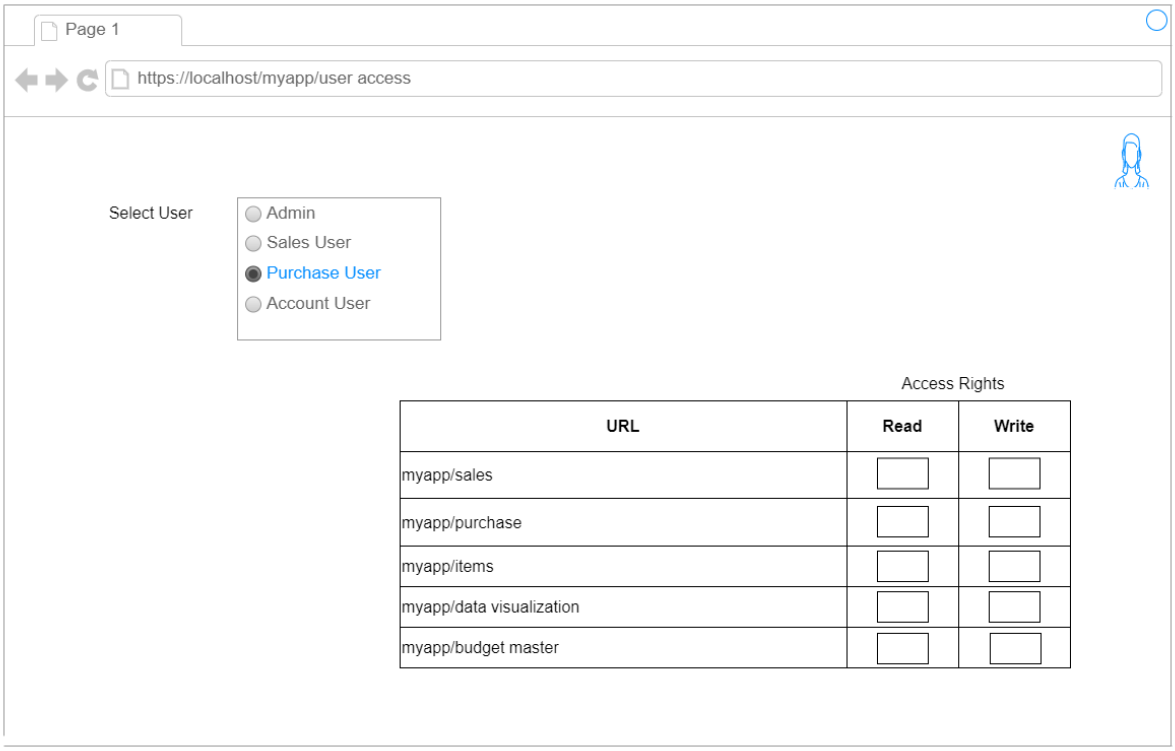


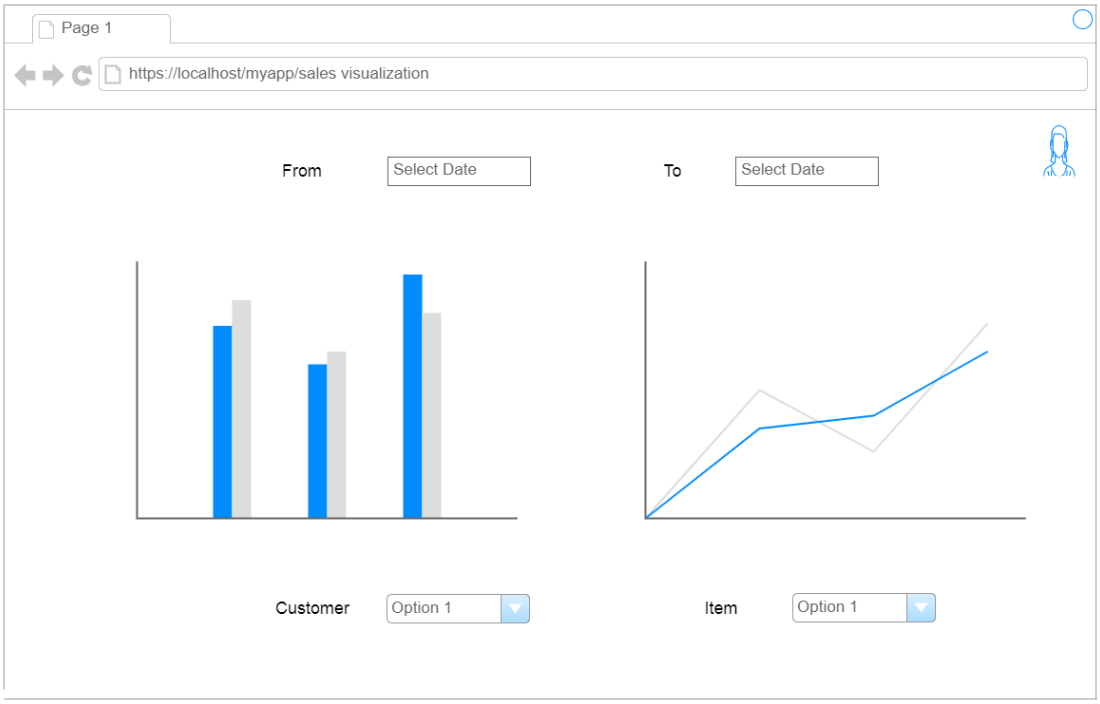
3.8 Module Hierarchy Diagram

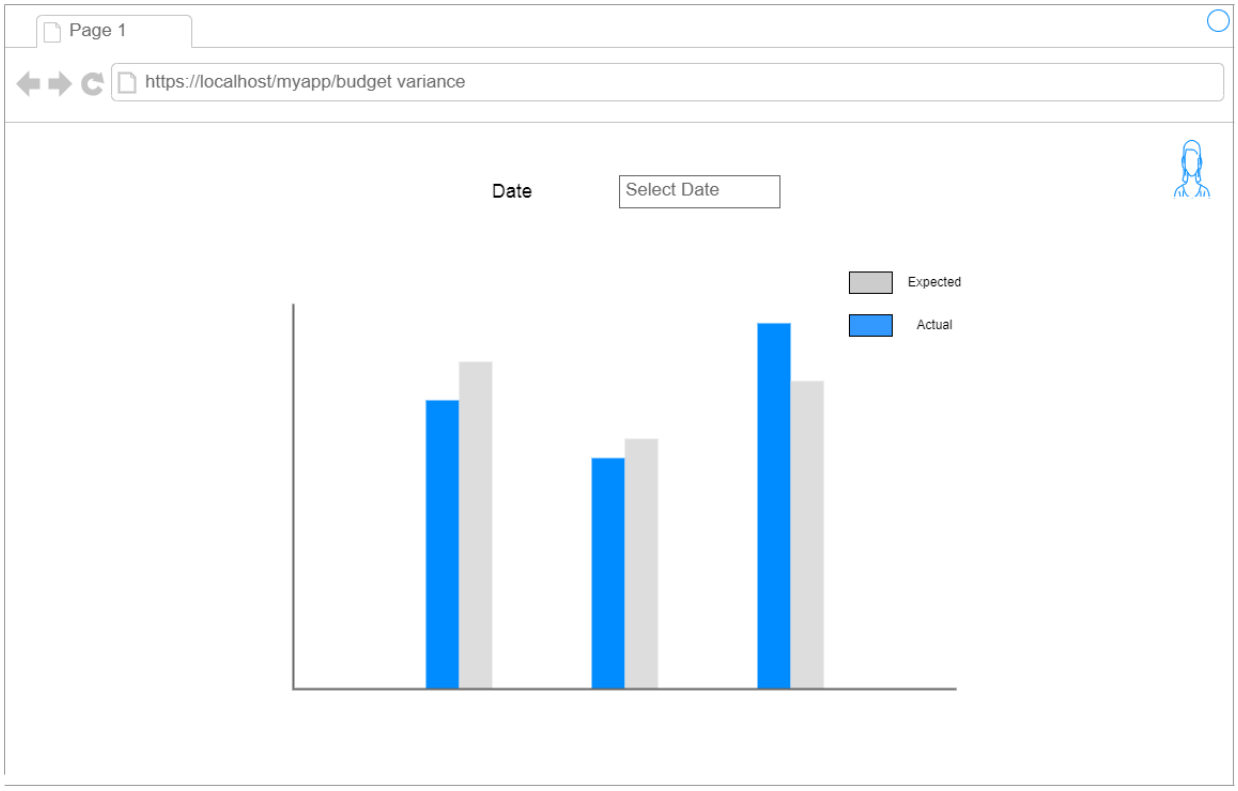


3.9 Sample Input Output Screens




Page 1
https://localhost/myapp/user access
Select User
Admin
Sales User
Purchase User
Account User
Access Rights
URL
Read
Write
myapp/sales
myapp/purchase
myapp/items
myapp/data visualization
myapp/budget master


Page 1
https://localhost/myapp/sales visualization
From
Select Date
To
Select Date
Customer
Option 1
Item
Option 1


Page 1
https://localhost/myapp/budget variance
Date
Select Date
Expected
Actual

A PROJECT REPORT ON

“Campus Recruitment System”

MES’ Institute of Management & Career Courses, Pune

Submitted By:-

1.Tejashree Joshi(2011067)

2. Pratiksha Wayase(2012136)

Maharashtra Education Society's

Institute of Management & Career Courses (IMCC)

Approved by AICTE and Recognized by Savitribai Phule Pune University, Pune

NBA accredited MCA programme

IMCC Campus, 131, Mayur Colony, Kothrud, Pune 411038, Maharashtra, India | Ph.: 020-2546 3453 / 6271 / 73 | e-mail: info.imcc@mespune.in

Ref. No. MES IMCC / 006-A/ 2021 – 22/ **Date: 14/03/2022**

CERTIFICATE

This is to certify that the Project Report entitled

Campus Recruitment System

is prepared by

Tejashree Anand Joshi

M.C.A. Semester III Course for the Academic Year 2021-22 at M.E. Society's Institute of Management & Career Courses (IMCC), Pune - 411038.
M.C.A Course is affiliated to Savitribai Phule Pune University.

To the best of our knowledge, this is original study done by the said student and important sources used by him/her have been duly acknowledged in this report.

The report is submitted for the Academic Year 2021-22 as per the rules & prescribed guidelines of Savitribai Phule Pune University.

Dr. Ravindra Vaidya
HOD, Computer Dept. IMCC

Dr. Santosh Deshpande
Director, MES IMCC

Maharashtra Education Society's

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Ref. No. MES IMCC / 006-A/ 2021 – 22/ **Date: 14/03/2022**

CERTIFICATE

This is to certify that the Project Report entitled

Campus Recruitment System

is prepared by

Pratiksha Mahendra Wayase

M.C.A. Semester III Course for the Academic Year 2021-22 at M.E. Society's Institute of Management & Career Courses (IMCC), Pune - 411038.
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Dr. Ravindra Vaidya
HOD, Computer Dept. IMCC

Dr. Santosh Deshpande
Director, MES IMCC

MINI PROJECT INDEX

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1.0 Introduction:

The purpose of Campus Recruitment System is to automate the existing manual by the help of computerized equipment and full-fledged computer software system fulfilling their requirements, so that their valuable data information can be stored for a longer period with easy accessing and manipulation of the same.

The required software and hardware are easily available and easy to work with Campus Recruitment System, as described above, can lead to error free, secure reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that ne need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

1.1Objective:

The main objective of the Project on Campus Recruitment System is to manage the details of College Company, Job, Student, Vacancy. It manages all the information about College, Placement, Vacancy ,College. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the College. Company, Placement, Job. It tracks all the details about the Job, Student

1.2 Existing System:

The old manual system was suffering from a series of drawbacks. Since whole of the system was to be maintained with hands the process of keeping, maintaining and retrieving the information was very tedious and lengthy. The records were never used to be in a systematic order there used to be lots of difficulties in associating any particular transaction with a particular context. If any information was to be found it was required to go through the different registers, documents there would never exist anything like report generation. There would always be unnecessary consumption of time while entering records and retrieving records. One more problem was that it was very difficult to find errors while entering the records. Once the records were entered it was very difficult to update these records.

1.3 Need and Significance:

The "Campus Recruitment System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a Smooth and effective manner

1.4 Modules:-

- **Admin Login:-**
  Admin login has the main control and all functional rights of the system the admin can check the companies and students input and can take action according to the situation

- **Student Login:-**
  Student login is for the students where they will register themselves, make their profile, upload their resume and can apply for the job. They can also check the latest updates of the new vacancies in different projects and can apply for them

- **Company Login:-**
  The company login can update there are new vacancies on the system .They can see the students profile and can directly contact with the students

2.0 Requirement Specification:-

2.1 Software Specification:-

- Windows Xp, Windows 7(ultimate, enterprise)
- SQL 2008
- Notepad ++,Notepad
- Xampp Serve
- Front End:-Html,CSS
- Back End:-php ,mysql

2.2 Hardware Specification:-

- Processor – i3
- Hard Disk – 5 GB
- Memory – 1GB RAM

3.0 Advantages and Disadvantages:-

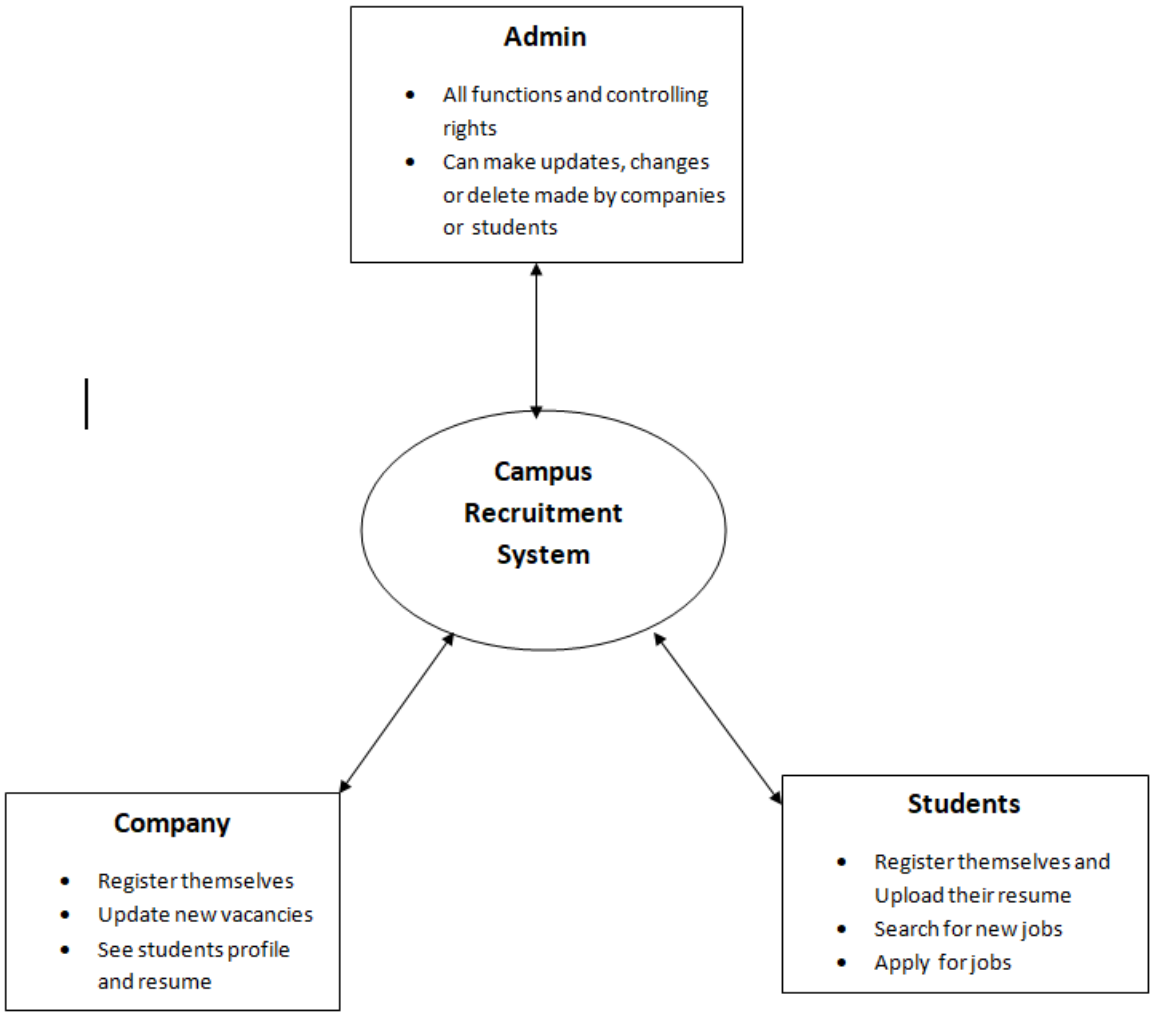
3.1 Advantages:-

- There will be no need of putting up notice or emailing every student about the company coming in college. The students can keep updated themselves through this software.
- The company can view all students' detail and system can shortlist students according to their criteria instead of doing manually.
- There is admin login that can view and manage both students and company's account and also can put up notifications.
- Student can register online instead of going to placement department for registration.
- This system saves time and efforts.

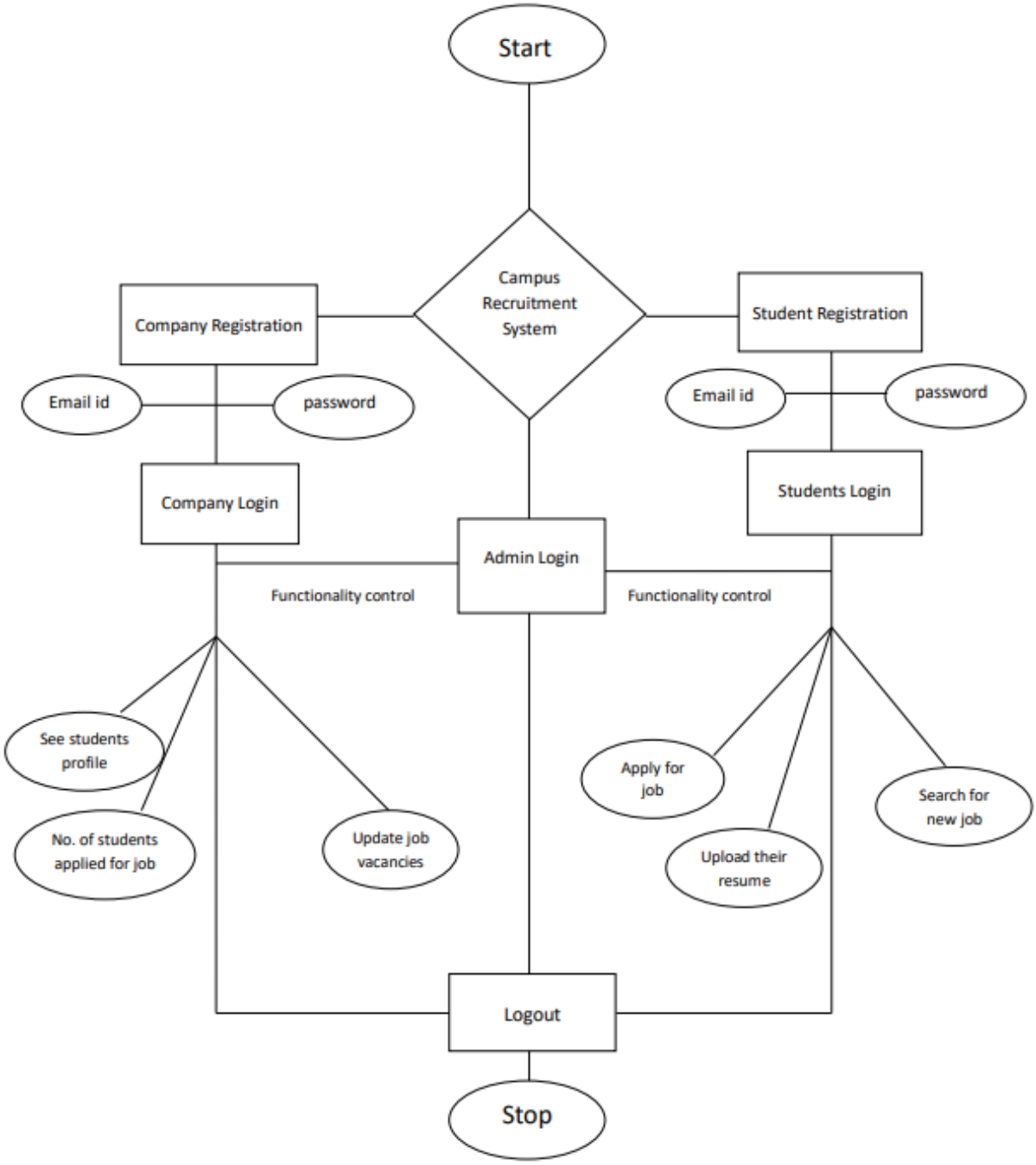
3.2 Disadvantages:-

- Student can't edit their application once sent. It would require admin to change the data.
- It requires large database

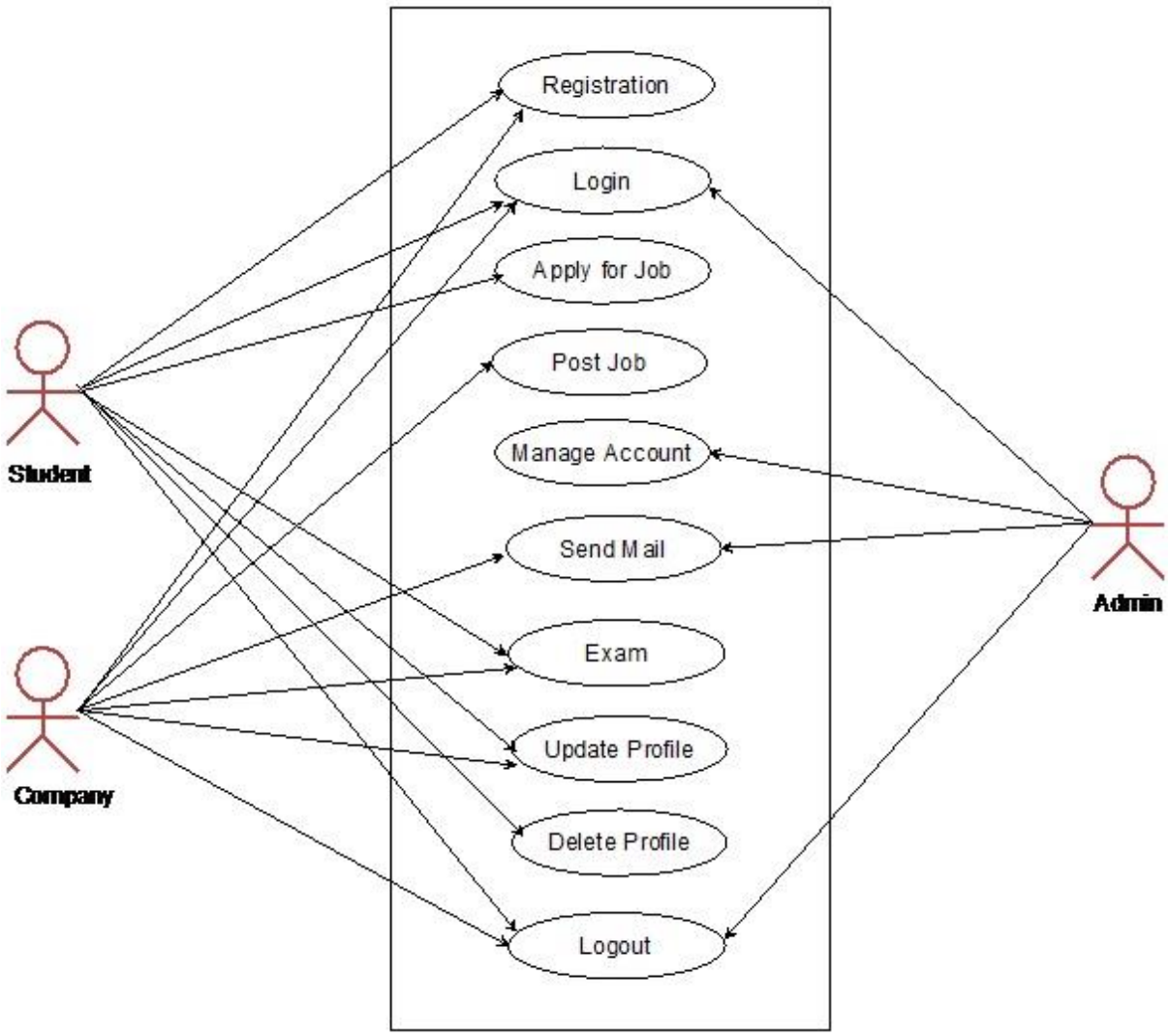
4.0 Data Flow Diagram :-



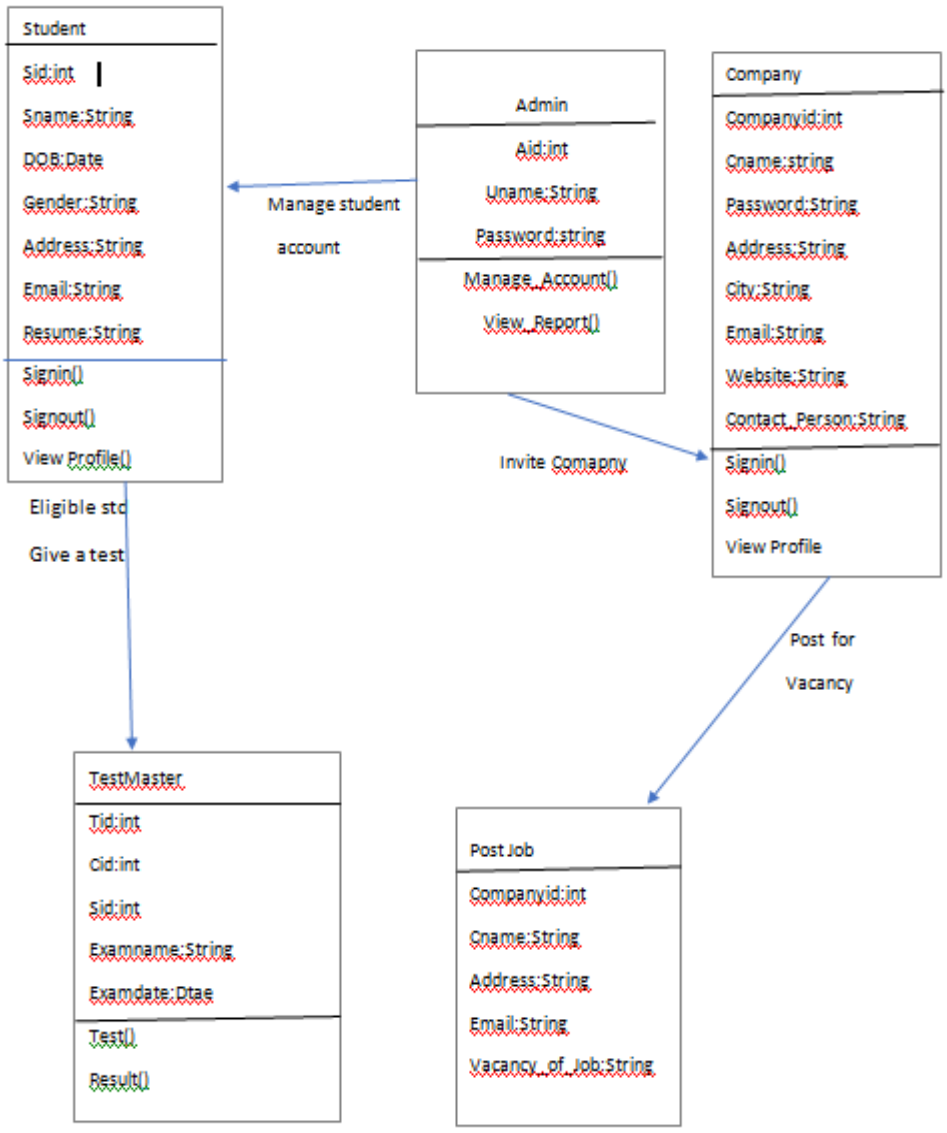
5.0 E- R Diagram:-



6.0 Use Case Diagram:-



7.0 Class Diagram:-



8.0 Test Procedures:-

8.1 Unit Testing:-This is lowest level of testing that is conducted to remove syntax and logic errors from a single unit. Individual components are tested that they operate correctly. Each components is tested independently. Without other system component.

8.2 Module Testing :-: A module is a collection of dependent components such as an object class, an abstract data type or some looser collection of procedures and function. A module encapsulate related components. So can be tested without other system module.

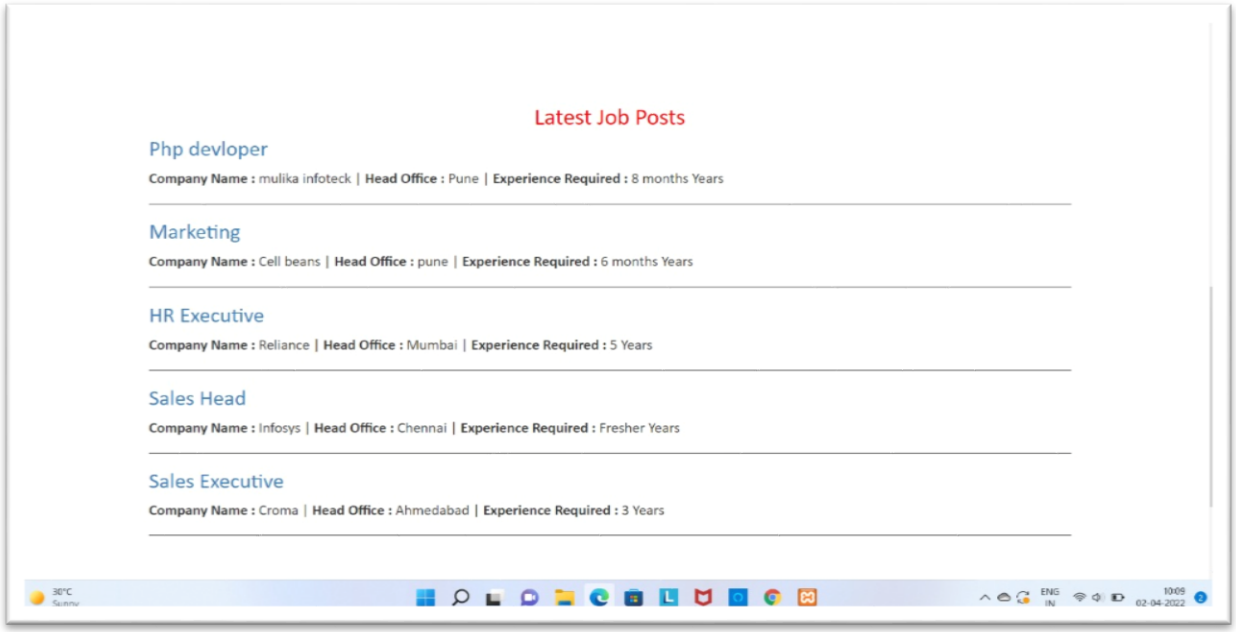
8.3 Sub System Testing:-This phase involve testing collection of modules which have been integrated into sub-system. This test for problem that arise from components interaction. This testing should begin as soon as usable version of some of the system components are available.

8.4 System Testing:-: The sub-system are integrated to make up the system. The system as a complete entity is tested over here. This process is concerned with finding errors that result from interaction between sub- system. It is also concerned with validating that the system meets its functional &nonfunctional requirement and testing the emergent system properties.

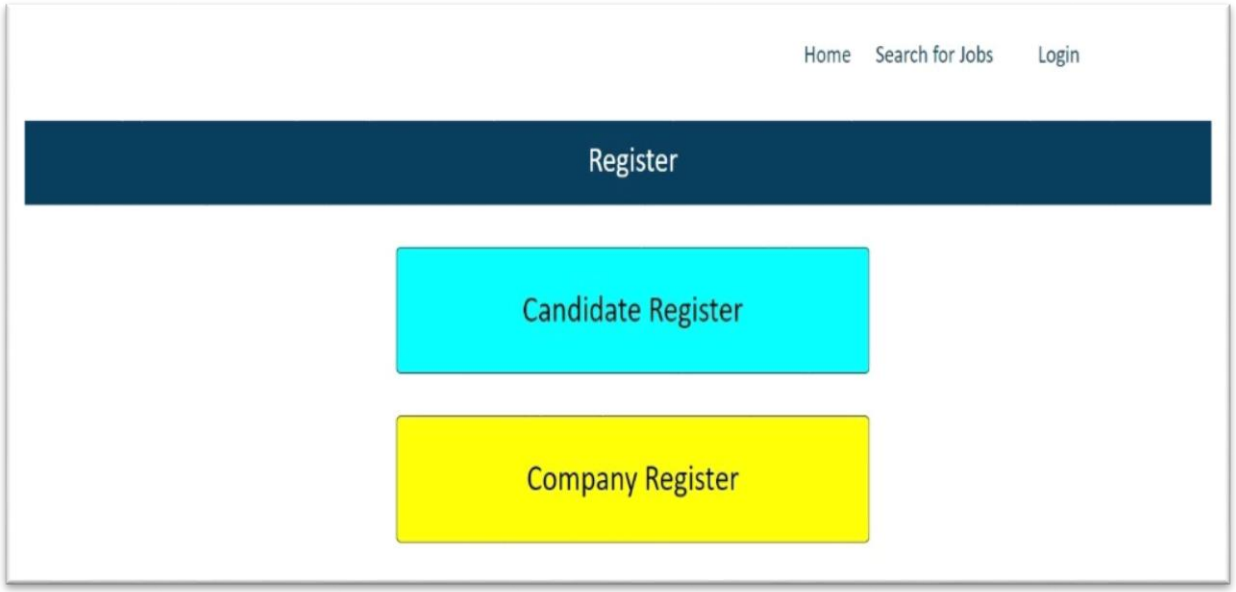
8.5 Acceptance Testing :-This is the final stage in the testing process before the system is accepted for operational use. The System is tested with data supplied by the system customer rather than simulated test data. Acceptance Testing may reveal error & in the systems requirement definition because the real data exercise the system in different ways.

9.0 Screen Sample:-

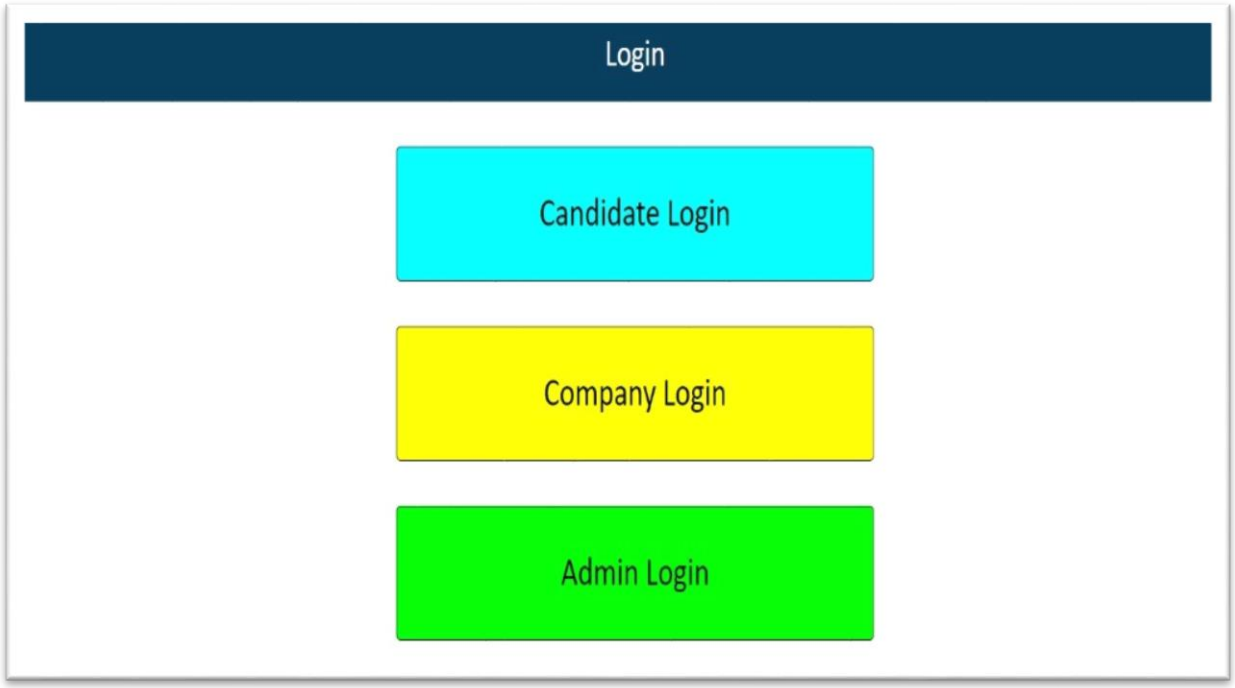
Index.php



Register.php

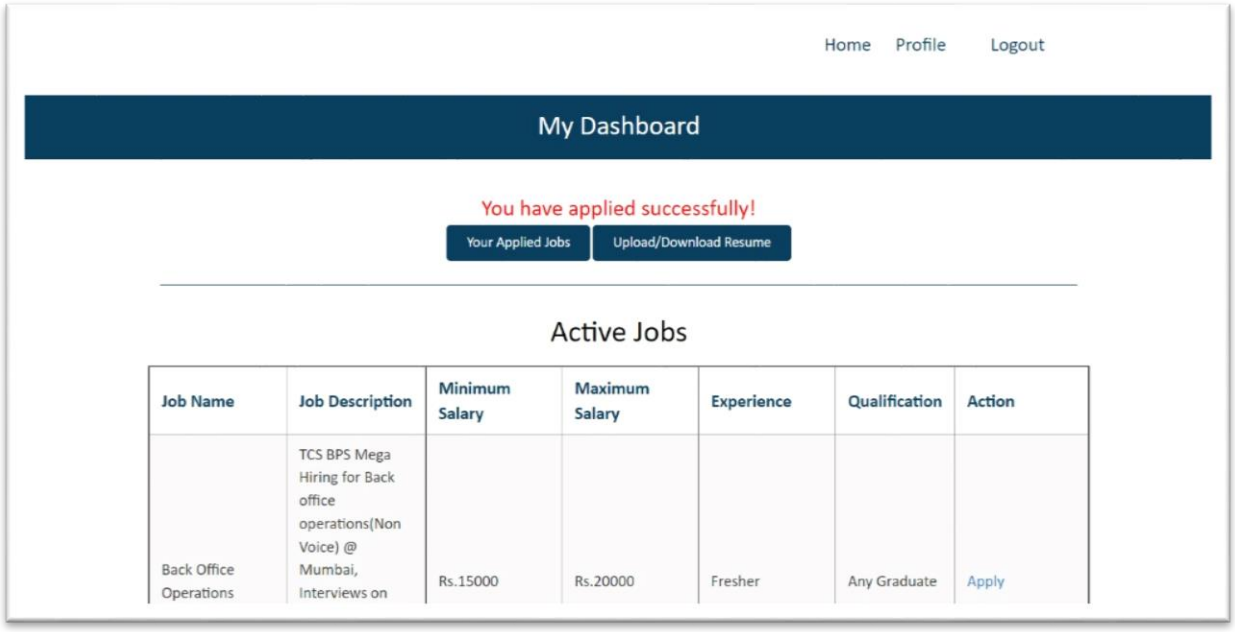


Mainlogin.php

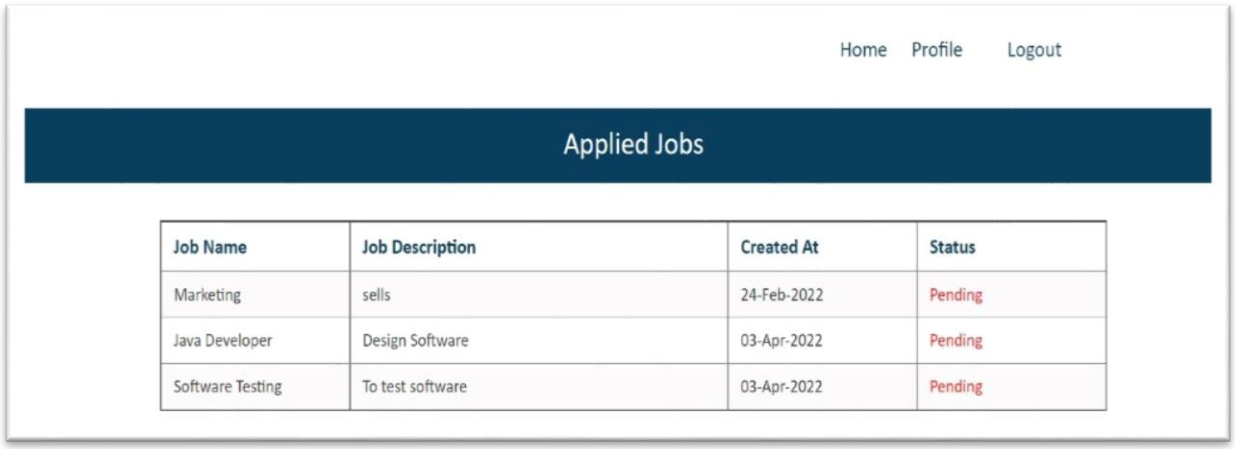


dashboard.php

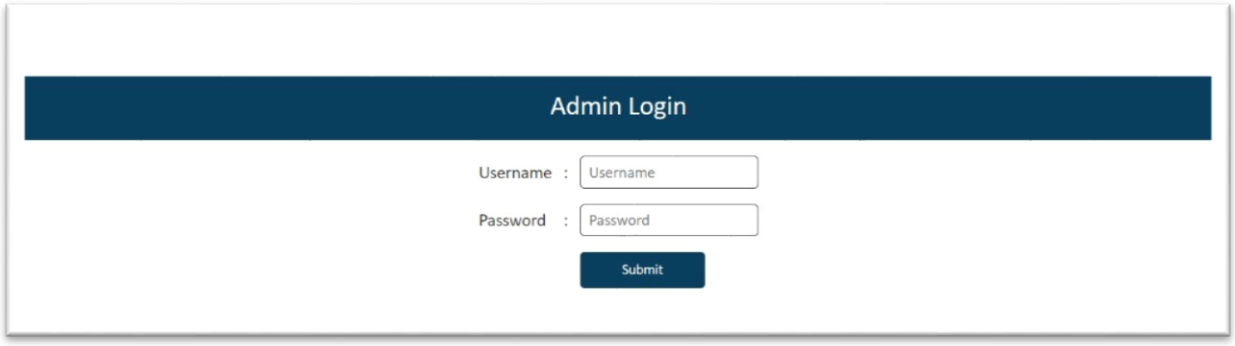
Dashboard.php



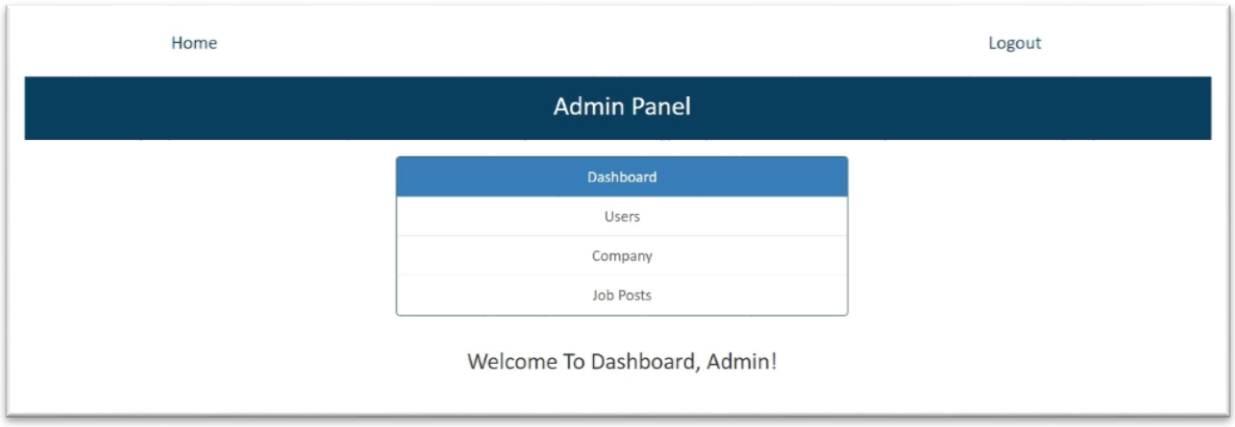
Applied-jobs.php



Adminlogin.php



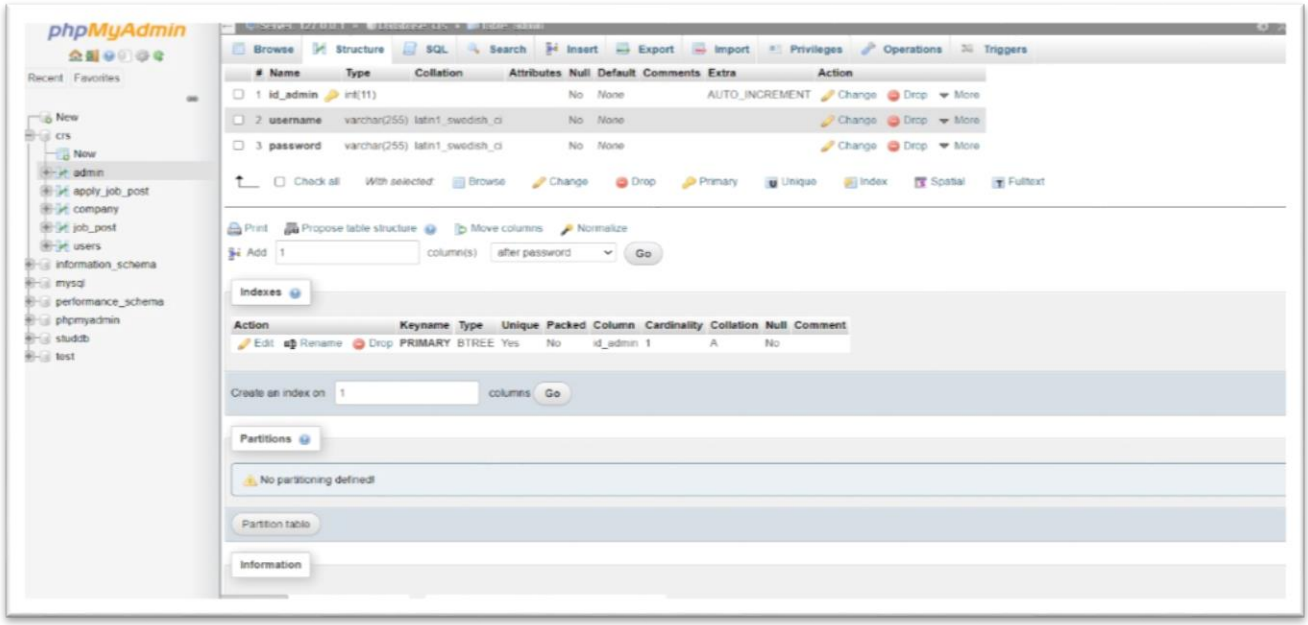
Adminpanel.php



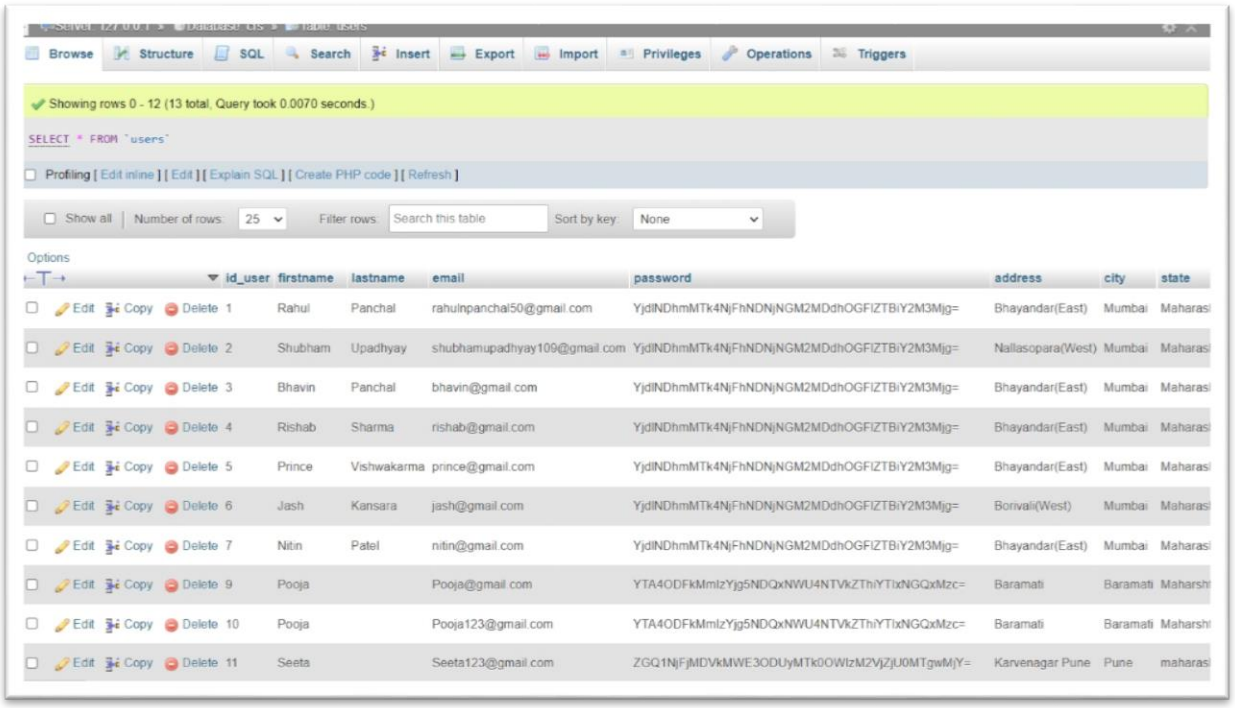
Company Dashboard:-

Database:-

Admin Data:-



Student Data:-



Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Triggers

Showing rows 0 - 12 (13 total, Query took 0.0070 seconds.)

```
SELECT * FROM `users`
```

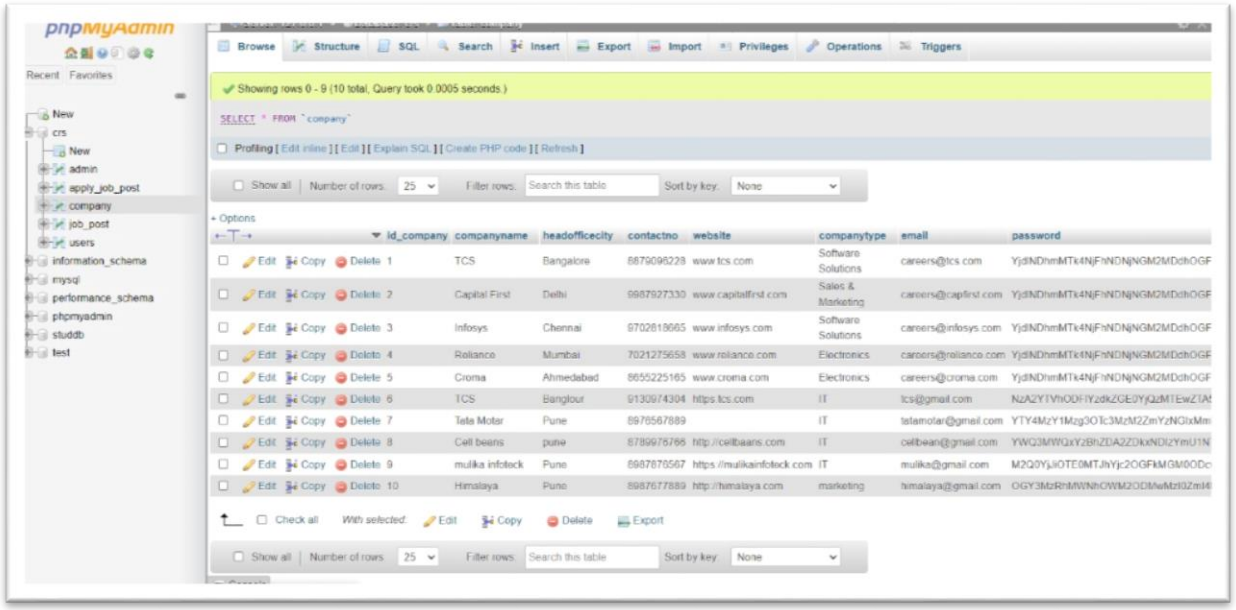
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

	id_user	firstname	lastname	email	password	address	city	state
Edit Copy Delete	1	Rahul	Panchal	rahulnpanchal50@gmail.com	YjdlNDhmMTk4NjFhNDNjNGM2MDdhOGFlZTBiY2M3Mjg=	Bhayandar(East)	Mumbai	Maharas
Edit Copy Delete	2	Shubham	Upadhyay	shubhamupadhyay109@gmail.com	YjdlNDhmMTk4NjFhNDNjNGM2MDdhOGFlZTBiY2M3Mjg=	Nallasopara(West)	Mumbai	Maharas
Edit Copy Delete	3	Bhavin	Panchal	bhavin@gmail.com	YjdlNDhmMTk4NjFhNDNjNGM2MDdhOGFlZTBiY2M3Mjg=	Bhayandar(East)	Mumbai	Maharas
Edit Copy Delete	4	Rishab	Sharma	rishab@gmail.com	YjdlNDhmMTk4NjFhNDNjNGM2MDdhOGFlZTBiY2M3Mjg=	Bhayandar(East)	Mumbai	Maharas
Edit Copy Delete	5	Prince	Vishwakarma	prince@gmail.com	YjdlNDhmMTk4NjFhNDNjNGM2MDdhOGFlZTBiY2M3Mjg=	Bhayandar(East)	Mumbai	Maharas
Edit Copy Delete	6	Jash	Kansara	jash@gmail.com	YjdlNDhmMTk4NjFhNDNjNGM2MDdhOGFlZTBiY2M3Mjg=	Borivali(West)	Mumbai	Maharas
Edit Copy Delete	7	Nitin	Patel	nitin@gmail.com	YjdlNDhmMTk4NjFhNDNjNGM2MDdhOGFlZTBiY2M3Mjg=	Bhayandar(East)	Mumbai	Maharas
Edit Copy Delete	9	Pooja		Pooja@gmail.com	YTA4ODFkMmIzYjg5NDQxNWU4NTVkZThiYTlxNGQxMzc=	Baramati	Baramati	Maharsh
Edit Copy Delete	10	Pooja		Pooja123@gmail.com	YTA4ODFkMmIzYjg5NDQxNWU4NTVkZThiYTlxNGQxMzc=	Baramati	Baramati	Maharsh
Edit Copy Delete	11	Seeta		Seeta123@gmail.com	ZGQ1NjFjMDVkMWE3ODUyMTk0OWIzM2VjZjU0MTgwMjY=	Karvenagar Pune	Pune	maharas

Company Data:-



phpMyAdmin

Recent | Favorites

New
crs
New
admin
apply_job_post
company
job_post
users
information_schema
mysql
performance_schema
phpmyadmin
studdb
test

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Triggers

Showing rows 0 - 9 (10 total, Query took 0.0005 seconds.)

```
SELECT * FROM `company`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

	id_company	companyname	headofficecity	contactno	website	companytype	email	password
Edit Copy Delete	1	TCS	Bangalore	8879098229	www.tcs.com	Software Solutions	careers@tcs.com	YjdlNDhmMTk4NjFhNDNjNGM2MDdhOGF
Edit Copy Delete	2	Capital First	Delhi	9987927330	www.capitalfirst.com	Sales & Marketing	careers@capfirst.com	YjdlNDhmMTk4NjFhNDNjNGM2MDdhOGF
Edit Copy Delete	3	Infosys	Chennai	9702818665	www.infosys.com	Software Solutions	careers@infosys.com	YjdlNDhmMTk4NjFhNDNjNGM2MDdhOGF
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Edit Copy Delete	6	TCS	Banglour	9130974304	https tcs.com	IT	tcs@gmail.com	NzA2YTVhODFlYzdkZGE0YjQzMTEwZTA
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Check all | With selected: Edit | Copy | Delete | Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

10.0 Conclusion:-

Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

11.0 Bibliography:-

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- https://www.tutorialspoint.com/javal http://www.javatpoint.com/java-tutorial
- https://docs.oracle.com/javase/tutorial http://www.wampserver.com/en/
- http://www.JSP.net/
- http://www.tutorialspoint.com/mysql/ httpd.apache.org/docs/2.0/misc/tutorials.html

A STUDENT PROFILE EVENT MANAGEMENT SYSTEM

A PROJECT REPORT

Submitted by

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and Nawaz Inamdar

(Seat no: 2101045)

Under the guidance of

Mrs. Apurwa Barve

MES Institute of Management & Career Courses (IMCC), Pune.

March 2022

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INTRODUCTION TO THE APPLICATION

This is an online student profile event management system software project that serves the functionality of an event manager for all the events happening in college.

This is proposed to be a web application, a portal which provides most of the basic functionality required for an event. Faculty/Admin will post the details of an event on the portal and students can see the details and interested one's can register themselves for that particular event.

The system allows only registered users to login and new users are allowed to resister on the application.

It allows the students to select from a list of events posted on the portal and can register for them as per their interest. Once the student's register for any event, the acknowledgement is given to the student and data of that student is logged in the database, the respective faculty will be able to see the details of registration and they may interact with the student as per their requirements and the data will help them take appropriate decisions regarding the events.

EXISTING SYSTEM & ITS LIMITATIONS

An existing system refers to the system or pattern that is being currently followed.

1. In the existing Event Management System of our college, the faculty posts details about the events which are planned in the coming days and asks interested students to register for them on WhatsApp groups.
2. For every individual cell in college, events take place which leads to creation of multiple WhatsApp groups which causes confusion among the students.
3. Maintaining a list of all the events and their dates can be challenging for students in this system.

PROPOSED APPLICATION AND ITS FEATURES

The proposed project is an easy way to register for any event of your interest among a list of all events happening in the college on a single portal online.

Our aim is to make the event registration process more user friendly and to promote academic networking among the users.

This is a web-based application that overcomes the issue of managing all the events taking place in the college according to user's choice or demands.

This project offers an effective solution where students can view all the events their dates and basic information on a single portal and register themselves.

If the registrations are closed, students will be notified that the registrations are closed. Students as well as Faculty can easily view all the event details on their home page.

Some of the features of our application are:

1. Student Registration and Login.
2. Faculty/Admin Login.
3. Student can view all the events on a single portal and register themselves then and there itself.
4. Students can view the registrations so that by watching their peer's interest they may be more inclined to participate.
5. Students can cancel their registration any time they want.
6. An engaging platform for all the students which will help them manage their schedule properly.

The Application can be used by non-programming personal, avoiding any human handled chance of errors, providing better user experience for the students/faculties.

HARDWARE AND SOFTWARE REQUIREMENTS

FRONT END

We are using latest versions of HTML/ CSS as our front end.

HTML is the language for describing the structure of Web pages.

HTML gives authors the means to publish online documents with headings, text, tables, lists, photos, etc. it also enables retrieval of online information via hypertext links, at the click of a button.

CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers.

BACK END

We are using XAMPP server for our backend activities.

XAMPP is a free and open-source cross-platform web server. XAMPP is simply a local host or server that is used to test clients or websites before publishing them to a remote web server. The XAMPP server software on a local computer provides an appropriate environment for testing MYSQL, PHP, Apache, and Perl projects.

System requirements:

1. Installation of latest version of XAMPP (8.0.17)

MIDDLEWARE

We are using java servlets as our middleware.

A servlet is a Java-specific way of writing software that responds to HTTP requests. A language class that is used to extend the capabilities of servers that host applications accessed by means of a request-response programming model. Although servlets can respond to any type of request, they are commonly used to extend the applications hosted by web servers.

System requirements:

2. Installation of latest version of the Eclipse (JAVA EE – 8)
3. Installation of Tomcat (10.0.16)

DEVELOPMENT PLATFORM SPECIFICATIONS

OS Name - Microsoft Windows 10 Home Single Language

Version - 0.0.19042 Build 19042

Processor - Intel(R) Core (TM) i5-10210U CPU @ 1.60GHz, 2112 Mhz, 4 Core(s), 8 Logical Processor(s)

System Type - x64-based PC

RAM - 8.00 GB

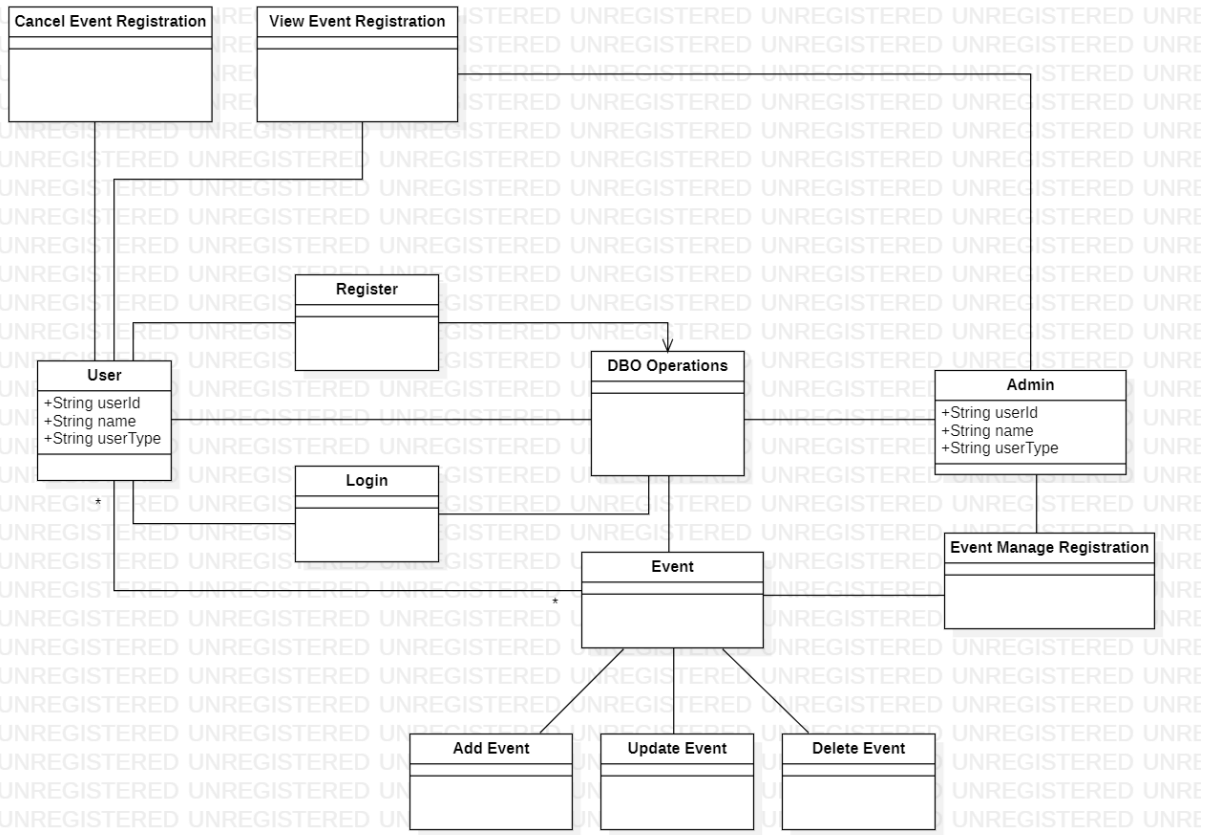
HDD - 1TB

SSD - 256MB

DESIGN SYSTEM & FILE DESIGNING

USE CASE

CLASS DIAGRAM



DATA DICTIONARY

User Table

userId	name	userType	gender	password	email	course
2101010	Sheetal Kalantre	admin	female	12345678910	sheetalkalantre@gmail.com	
2101011	Atul Kalantre	admin	male	123456789	atulkalantre@gmail.com	*NULL*
2101040	Anushree Gore	student	Female	123456	goreee@gmail.com	FYMCA
2101045	Nawaz Inamdar	student	Male	1234567	nawazinamdar@gmail.com	FYMCA
2101058	Maitreyi Kalantre	student	Female	12345	*NULL*	*NULL*

Event Table

id	name	description	canRegister	createdBy	eventGender	winner1	winner2	winner3
19	Cricket	Time Place *Rules*	true	Atul Kalantre	Both	Maitreyi		
20	Cricket	*Description*	true	Sheetal Kalantre	Male	*NULL*	*NULL*	*NULL*

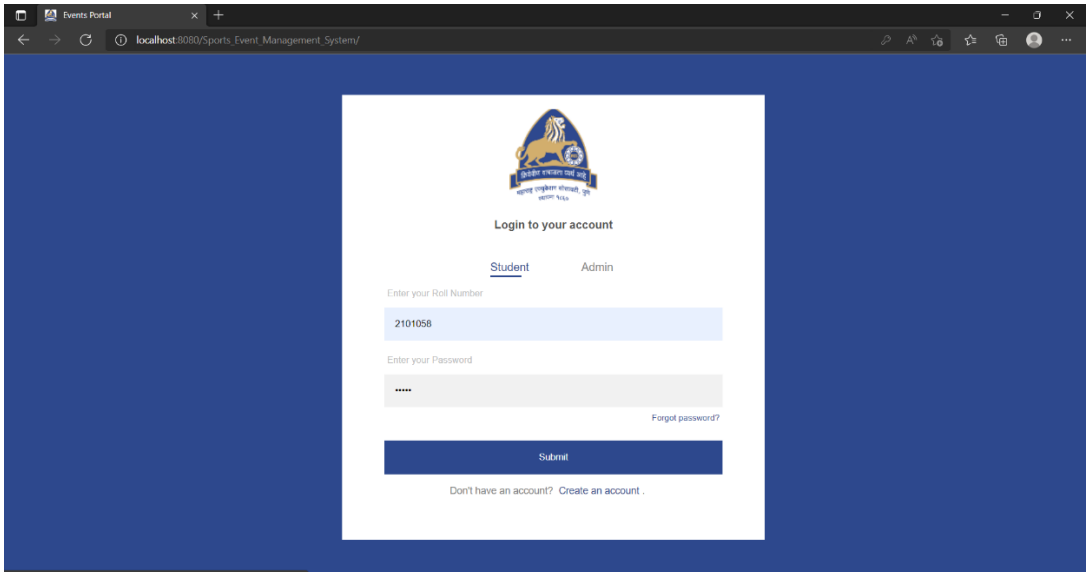
Registrations Table

+ Options

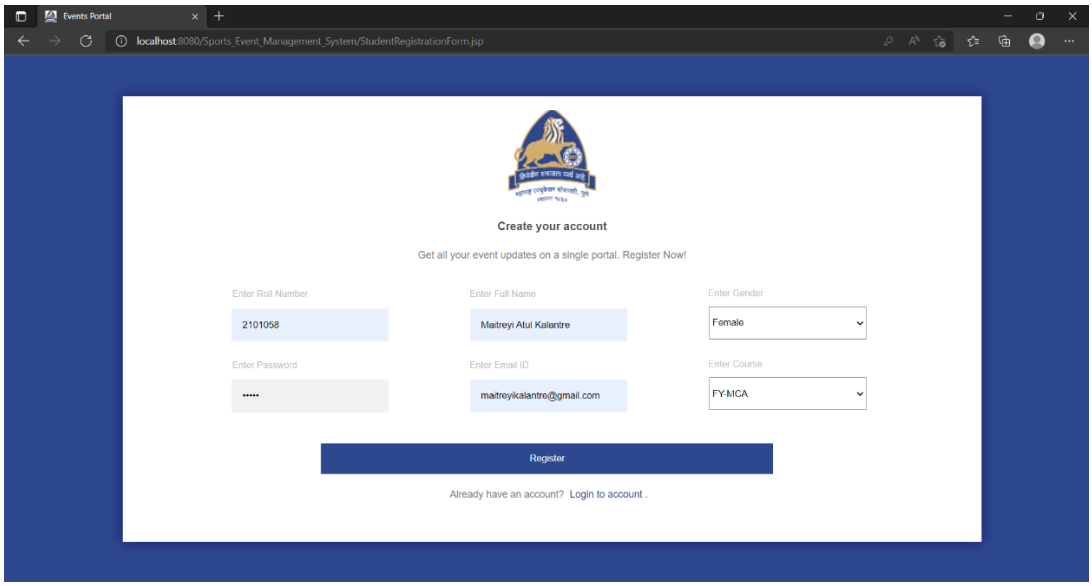
id	userId	notes
19	2101058	*notes*

INPUT OUTPUT SCREENS

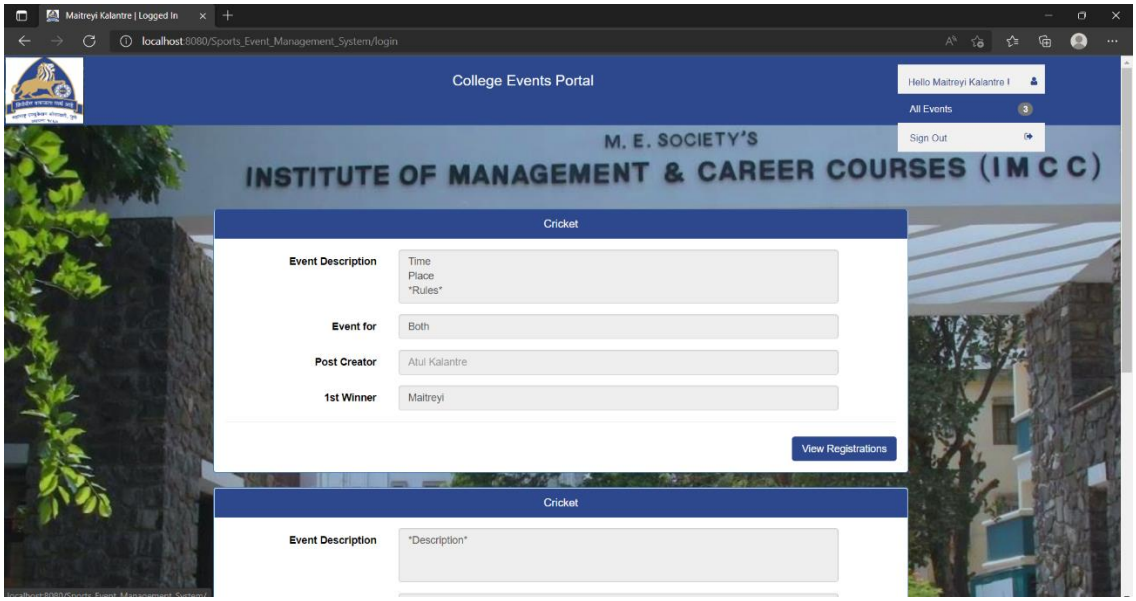
Login Screen

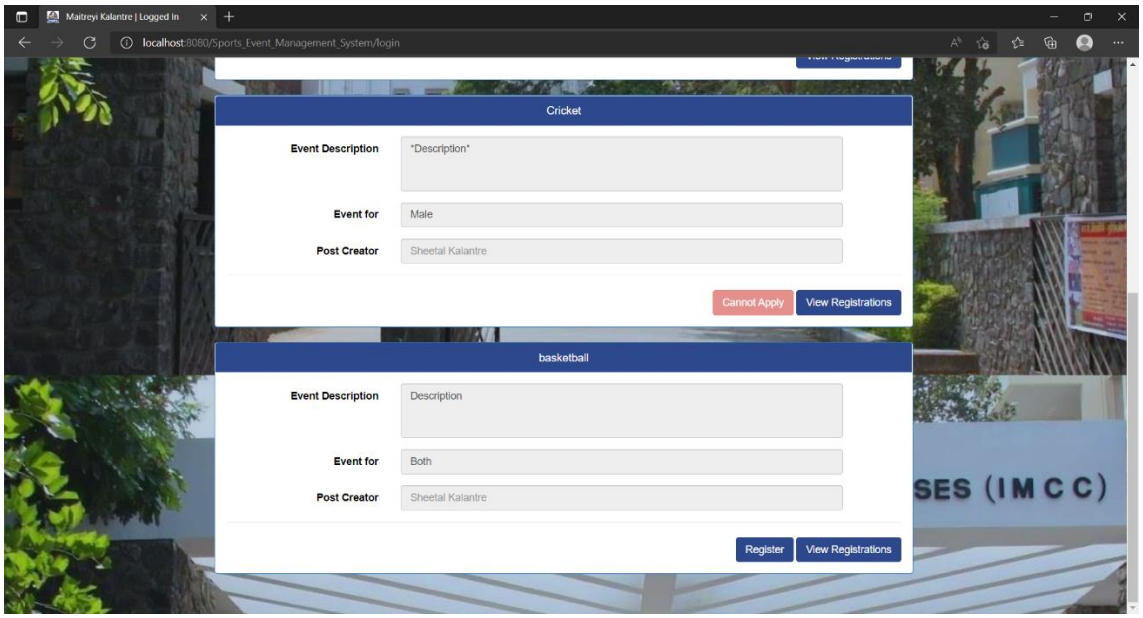


Registration Page

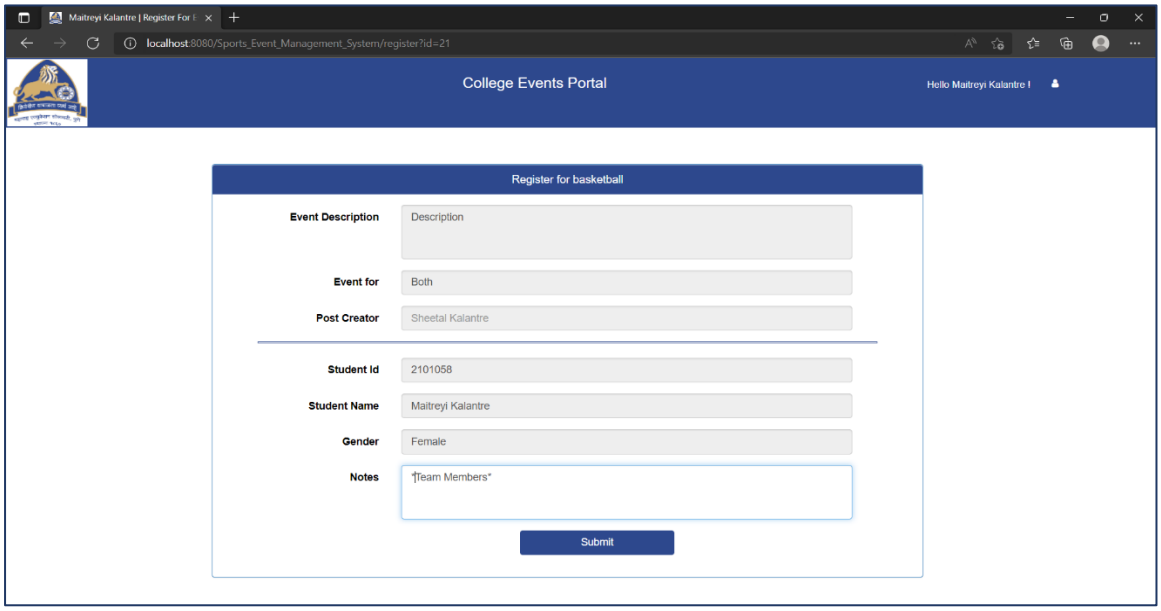


Student Home Pages

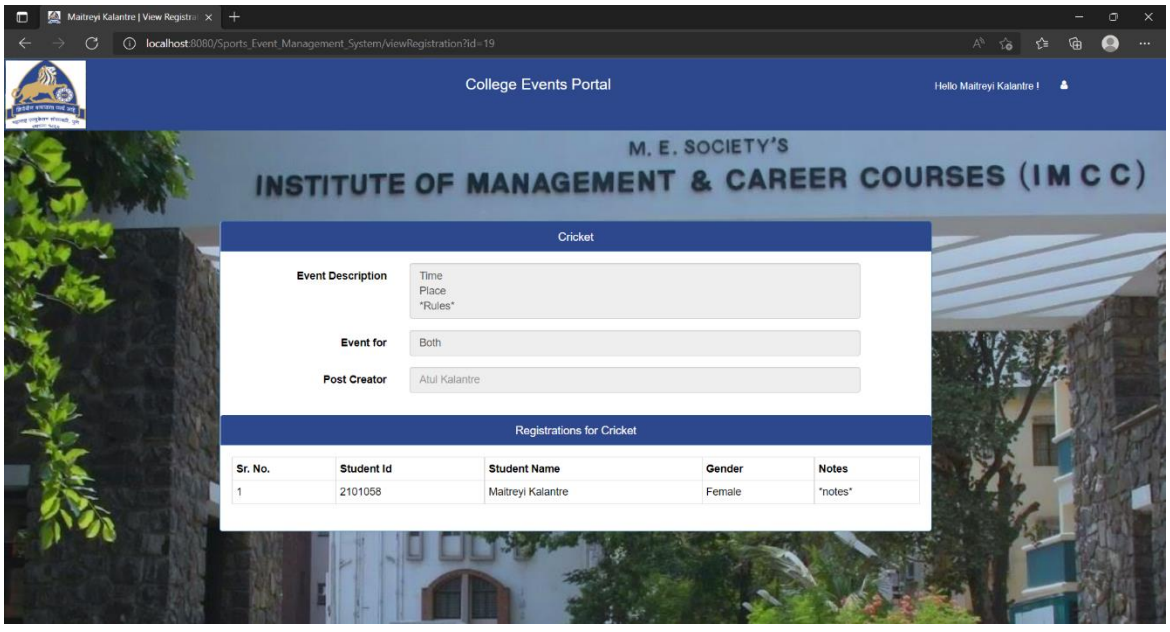




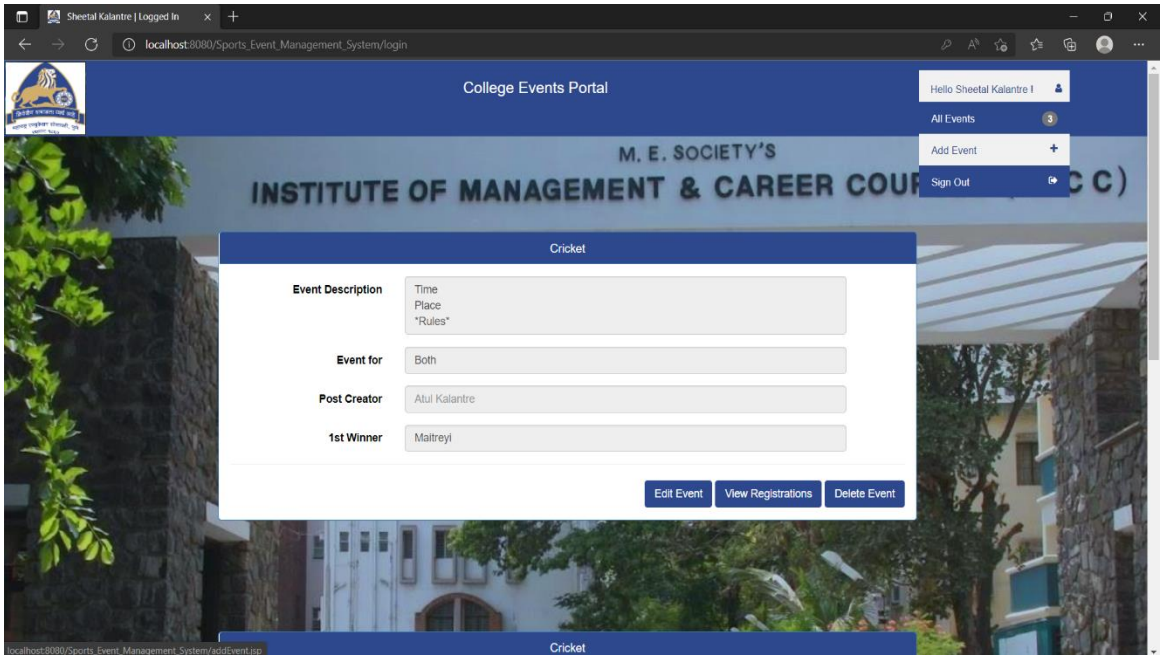
Event Registration Page



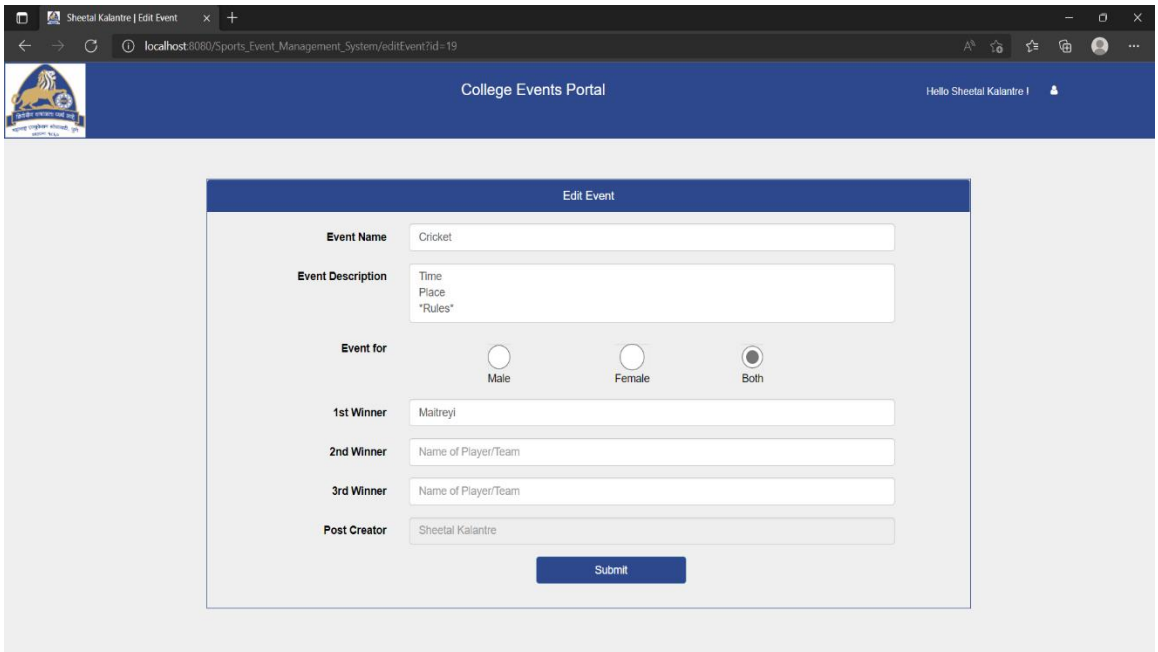
View Registrations Page – Student



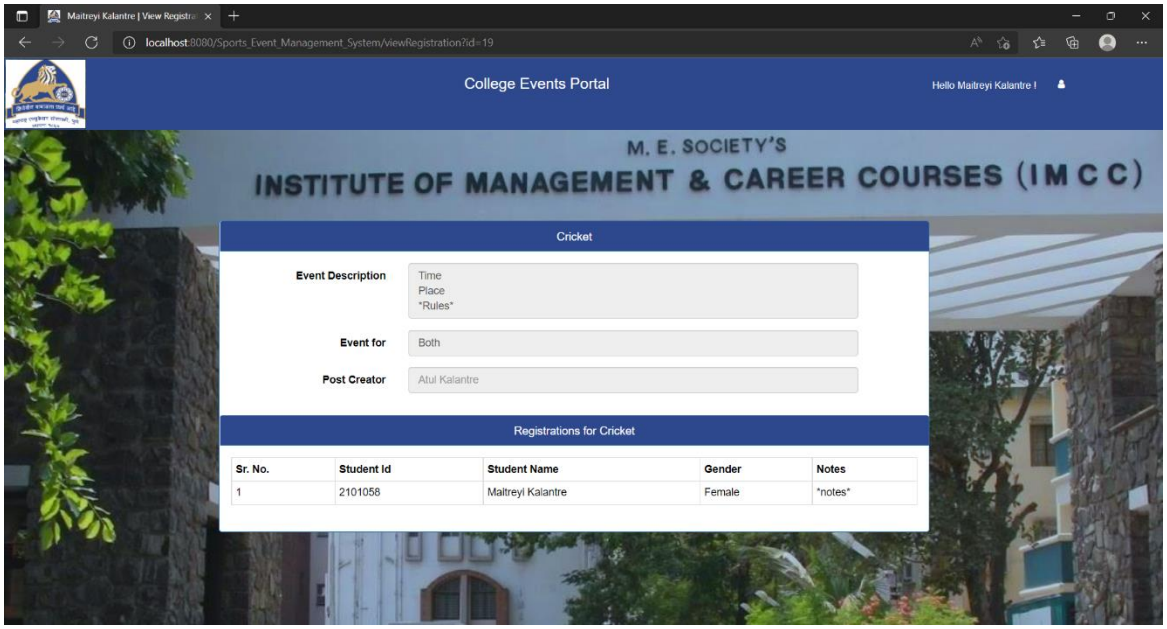
Admin/Faculty Home Page



Edit Event Page



View Registrations Page - Faculty



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6. https://stackoverflow.com/questions/