MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY
BHOPAL INDIA, 462003

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

TPO Assistant

Minor Project Presentation
Semester VI

Submitted By:

Hrishi Harsh Sengar	181112023
Naman Khandelwal	181112035
Dev Goyal	181112081
Archit Kuhar	181112105

Under the Guidance of

Dr. Deepak Singh Tomar

(Associate Professor)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
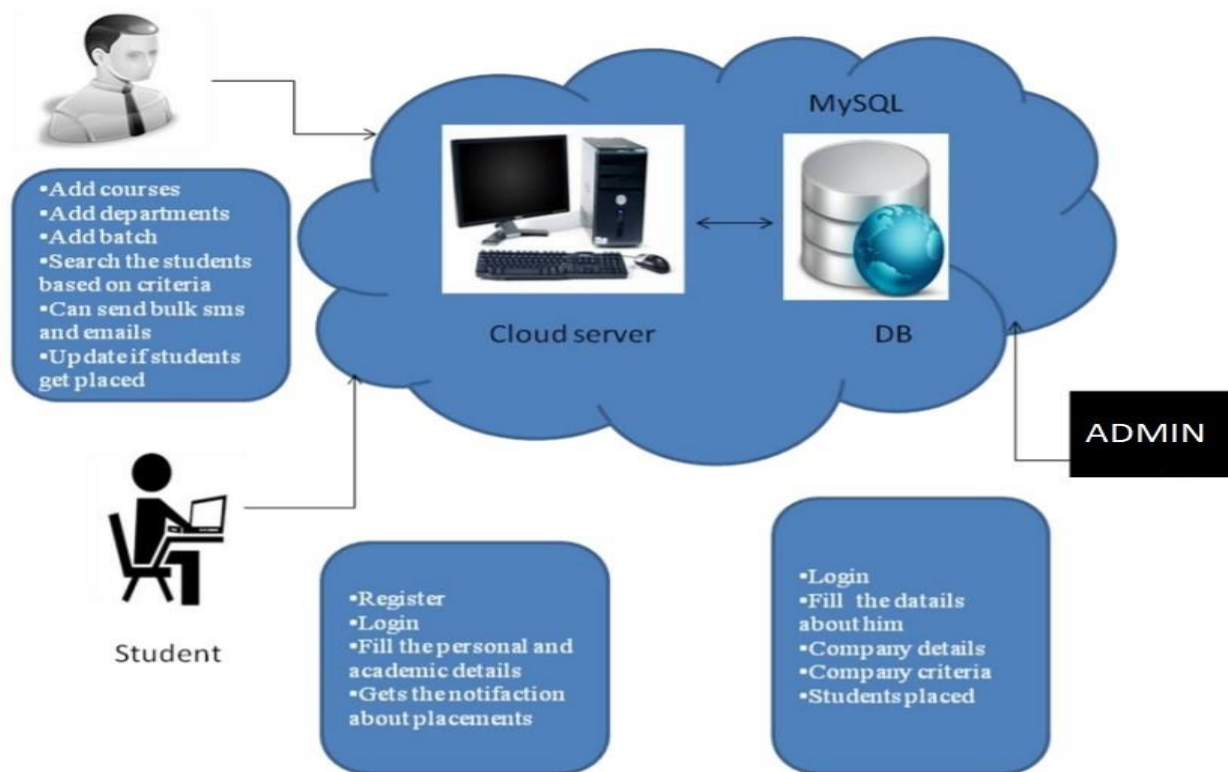
MANIT , BHOPAL

Problem Statement

- Insufficient communication b/w TPO and students.

- Application forms of companies are delayed.

- False information and typing errors filled in application form as TPO prepare messages on WhatsApp.

- Excess work for mediators. E.g. Class representative and TPO's have to clear same query to different students individually.

- No query assistant for students.

- Filling same information for different companies again and again.

- Involves more manual work of typing and forwarding messages from one to other.

- Human errors are highly possible while writing messages which lead to errors.
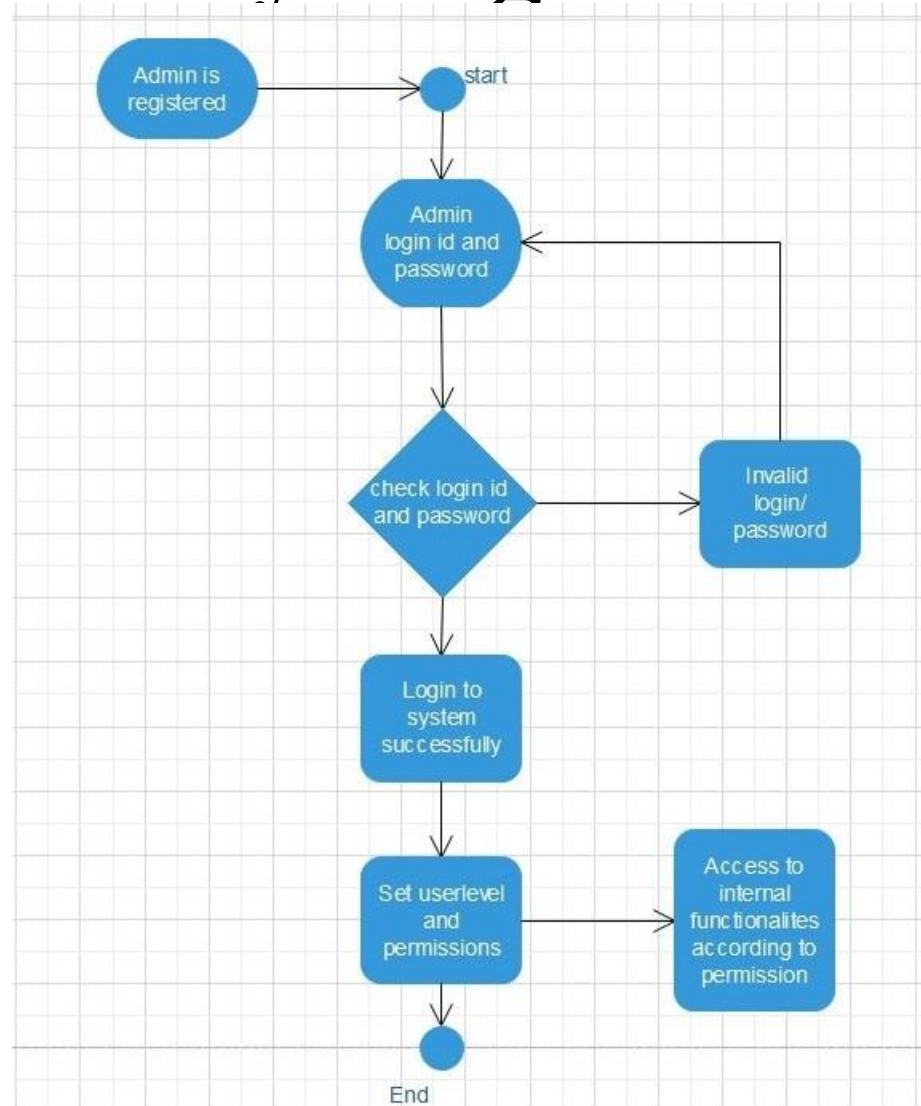
SOLUTION: Web Application as TPO Assistant

- A web application that will broadcast all the information from TPO cell related to training and placement directly to students.

- The proposed Online Training and Placement System management system meant to give more easiness to the users that they can add and retrieve information so quickly.

- Our aim is to eliminate the manual activities of the college placement cell so that they can complete work efficiently as it helps in maintaining student information and their Curriculum Vitae very effectively. Thus, eliminating human error.

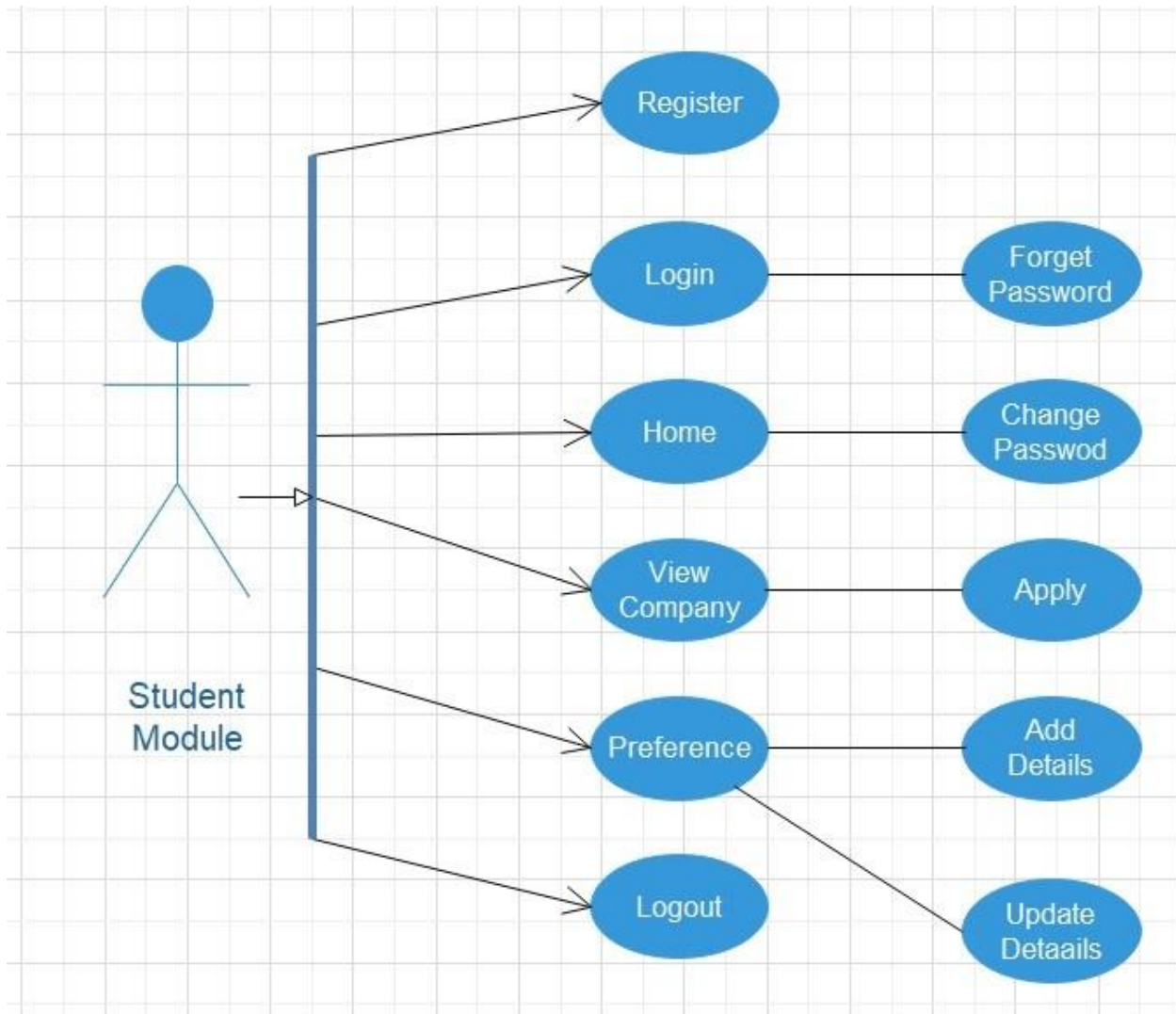- There are mainly two types of users they are student and company.

PROPOSED WORK

Login Activity Diagram

STUDENT MODULE

- In the student module first, the student should get registered to the system by filling the placement registration form which contains the details such as name, USN, course, email, mobile number and password.

- Once the student activates the account, they can login to the system through the username and password and should fill the academic registration form.

- The application form will contain the details such as personal details and educational qualifications.

- After that student can check the company visiting the campus and can apply to them according to the criteria and his/her convenience.

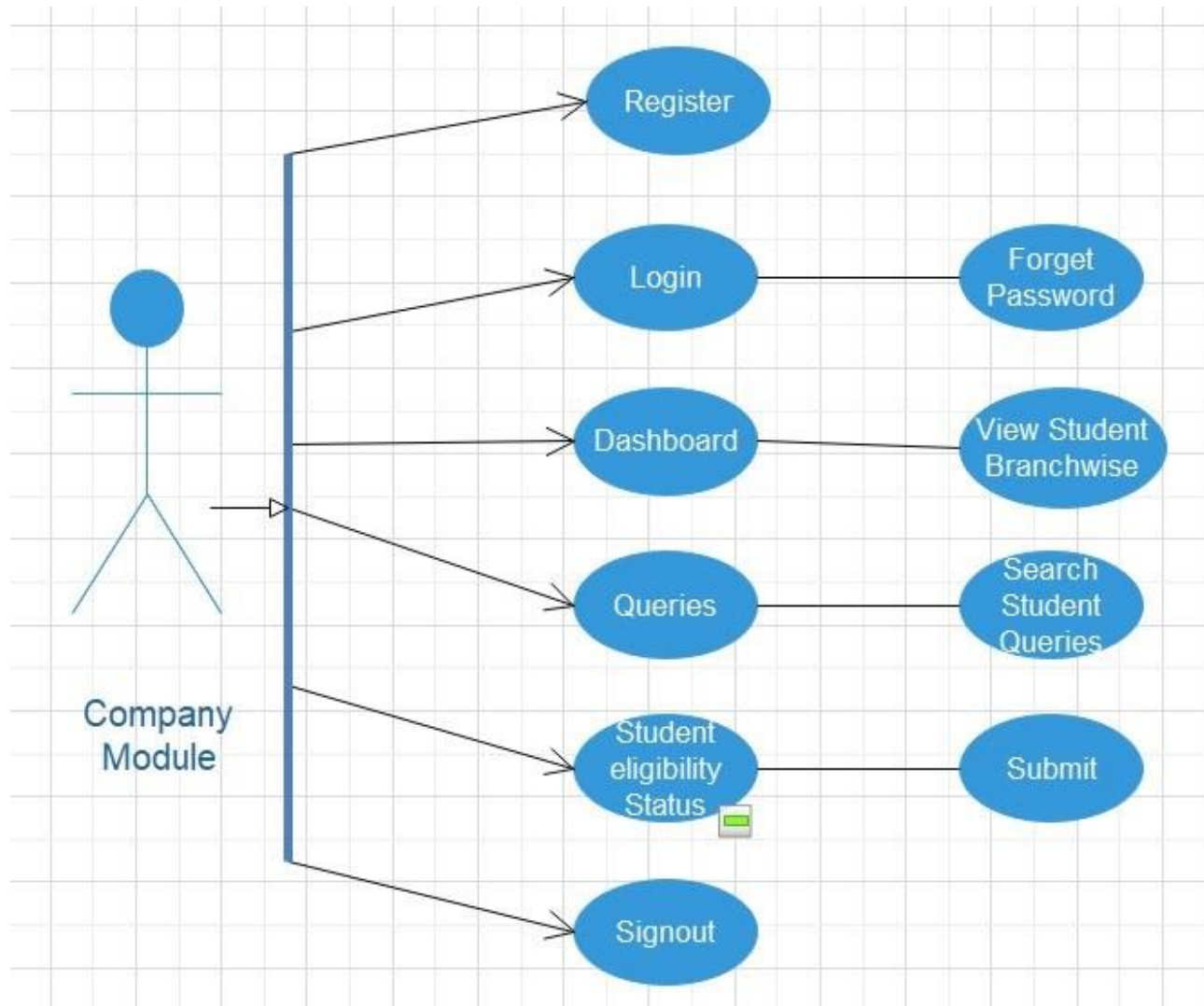- A student can apply in company just by using company id in apply section.

USE CASE DIAGRAM FOR STUDENT MODULE

COMPANY MODULE

- The training and placement officer can also login to the placement login section through the username and password assigned for a particular company by creating its profile.

- After login, the company will be able to see the data of all those students who applied in their company for the different positions they have been offering plus they can send notifications about number of jobs offering and also, they will offer internships for students.

- The placement login can also filter out those students who do not match their placement criteria. The criteria status can be selected on each and every data of the students.

- It also provides a query system to select a few students from the list for example we can select students of only "CSE" branch by using the query feature. This information can be retrieved directly from the system thus providing all the tools required at one place

USE CASE DIAGRAM FOR COMPANY MODULE

DATABASE COLLECTION

- All information about the students like Name, Scholar number, semester marks, percentage, contact number, address, E-mail address are collected and stored in a database by the placement officials.

- The administrator and authenticated user alone can alter the data in the database. The placement officer collects and stores all company profiles with student requirement.

- Placement officials are the responsible for altering the information in the database regarding the company details.

- The company information includes the company name, company address, job description, requirement of students, contact and Email address.

				id	Name	USN	PASSWORD	Email
☐	🖉 Edit	⊞ Copy	⊖ Delete	12	Dev Goyal	181112081	123456	devgoyal2028@gmail.com
☐	🖉 Edit	⊞ Copy	⊖ Delete	13	hrishi	181112023	123456	henga@gmail.com
☐	🖉 Edit	⊞ Copy	⊖ Delete	14	naman khandelwal	181112035	123456	naman@gmail.com
☐	🖉 Edit	⊞ Copy	⊖ Delete	15	archit kuhar	181112105	123456	archit@gmail.com
☐	🖉 Edit	⊞ Copy	⊖ Delete	16	Sachin	181112037	123456	tau@gmail.com
☐	🖉 Edit	⊞ Copy	⊖ Delete	17	Harsh Bansal	181112214	123456	harsh@gmail.com

				Id	FirstName	LastName	USN	Mobile	Email	DOB	Sem	Branch	SSLC	PU/Dip	BE	Backlogs
☐	🖉 Edit	⊞ Copy	⊖ Delete	15	Dev	Goyal	181112081	9518096664	devgoyal2028@gmail.com	1999-05-28	3	CSE	90	90	90	0
☐	🖉 Edit	⊞ Copy	⊖ Delete	16	hrishi	harsh	181112023	9100000000	henga@gmail.com	1999-02-02	5	CSE	50	50	50	0
☐	🖉 Edit	⊞ Copy	⊖ Delete	17	naman	khandelwal	181112035	5454545454	naman@gmail.com	1999-02-02	5	CSE	80	50	4	0
☐	🖉 Edit	⊞ Copy	⊖ Delete	18	sachin	gupta	181112037	9595959595	tau@gmail.com	1999-02-02	5	mech	90	90	90	0
☐	🖉 Edit	⊞ Copy	⊖ Delete	19	Harsh	Bansal	181112214	9119215735	harsh@gmail.com	1997-12-31	6	civil	90	90	90	0

↑ ☐ Check all | With selected: 🖉 Edit ⊞ Copy ⊖ Delete 🖳 Export

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

Tools and Technology

- HTML-5
- CSS
- Java Script
- Bootstrap
- Chrome Dev. Tools
- SQL
- PHP
- Server: XAMPP

Features

- Well organized platform.

- Student login for students.

- Placement for companies.

- One click application into companies.

- Statistics of placements and companies.

- New companies visiting will be automatically updated for application.

- Retrieval of eligible students based on company criteria.

- Query system to get list of particular students.

Problems Faced

Difficulties with Django:

- Complex work flow posed a problem in linking web pages .

- Database connectivity is made via creating a custom user model.

- Registration is fixed in Django via concept of super user and not custom user.

- Better for python scripting mailing used in ML,AI.

CONCLUSION

- In the current existing system almost all of the work is done manually and thus, this system is filled with errors and takes a lot of time for any changes in the data errors. The biggest problem is that there is no single individual handling the data and thus for every error in data a lot of people have to be contacted just to rectify a single mistake.

- There is no notification method available for giving information to student except the messages that are posted occasionally in the class groups.

- The proposed online training and placement management system gives the control of data to a few users which can manipulate the data regarding the companies only as the student is responsible for their own data which can be easily updated using the new proposed system and all the applying processes are automated and is the same for every company visiting the campus removing the need to create google forms for every company which is a hassle for the placement and training cell as the creating these forms are different at times and thus the data is handled by them only making it prone to the risk of tampering and data loss.

- Since the data is filled only once it removes the chances of error and thus making it easy and fast for students to apply for placements. It provides the detail solution to the existing system problem.

References

- 1. Java Script: https://devdocs.io/javascript/

- 2. MySQL: https://dev.mysql.com/doc/

- 3.PHP: https://www.w3schools.com/php/DEFAULT.asp , https://www.php.net/docs.php

- 4. HTML, CSS: https://www.w3schools.com/default.asp

THANK YOU