SOFTWARE REQUIREMENT SPECIFICATION FOR ACADEMIC SLOT BOOKING

NAME	ESWARI S
ROLL NO	7376221CD112
DEPARTMENT	COMPUTER SCIENCE AND DESIGN
PROJECT ID	21
TABLE NO	NIL
PROBLEM STATEMENT	ACADEMIC SLOT BOOKING

1. INTRODUCTION

1.1. Purpose

The purpose of this document is to present a detailed description of the academic slot booking. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

1.2. Scope of the Project

This software system will serve as a portal for easy access of academic slot booking registration, it enables students to register their academic labs in this portal, so that there will be no discrepancy of booking the academic lab slots in this portal.when a student find their own time at the time they will book the lab slot.so it helps the students to focus on other works or projects except that particular lab timings.This software helps the students to manage their works along with their other works.And they can see their

marks and reward points which was awarded by faculty on a particular subjects and rewards team.

2. SYSTEM OVERVIEW

2.1. Users

1.Students

Students can register their given timings to book their academic slot day without any discrepancy in upcoming semesters.students book their courses name,experiment number,name,roll no and timings allotted by their course faculty.

2.Admin

Admin is allowed to view every student's marks and their reward points including their departments,years,name,rollno,experiments completed and view the details of the students, faculties and rewards team.Admin was also provided with the edit access.

2.2. Features

1.Login

Students can login into the portal with their respective college mail id.

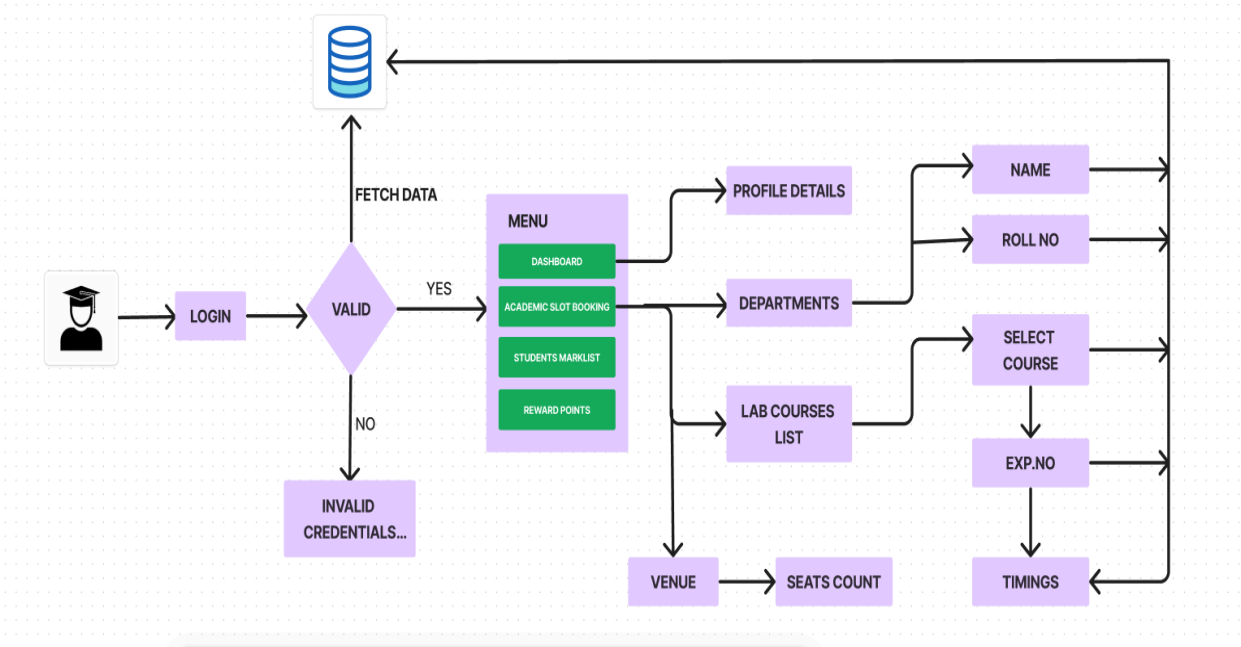
2.Registration

Every student register their name,roll no,if we select department it automatically shows their lab courses only, for every department,and it have default timings given by particular lab faculty and we choose our comfortable timings to attend the lab slots,experiment number,it can be contiguous or randomly,and venue allotted by the same faculty.

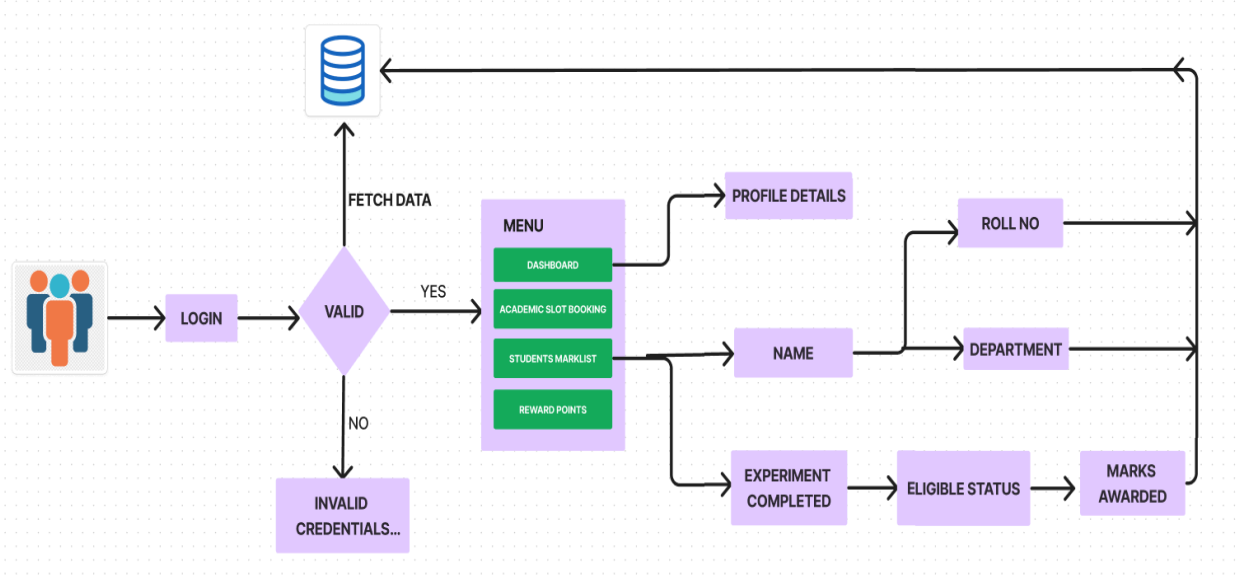
3.Dashboard

Dashboard of the student contains when they book the slot and timings and their awarded marks by the particular faculties and reward points also, and it also contains students' particular details.

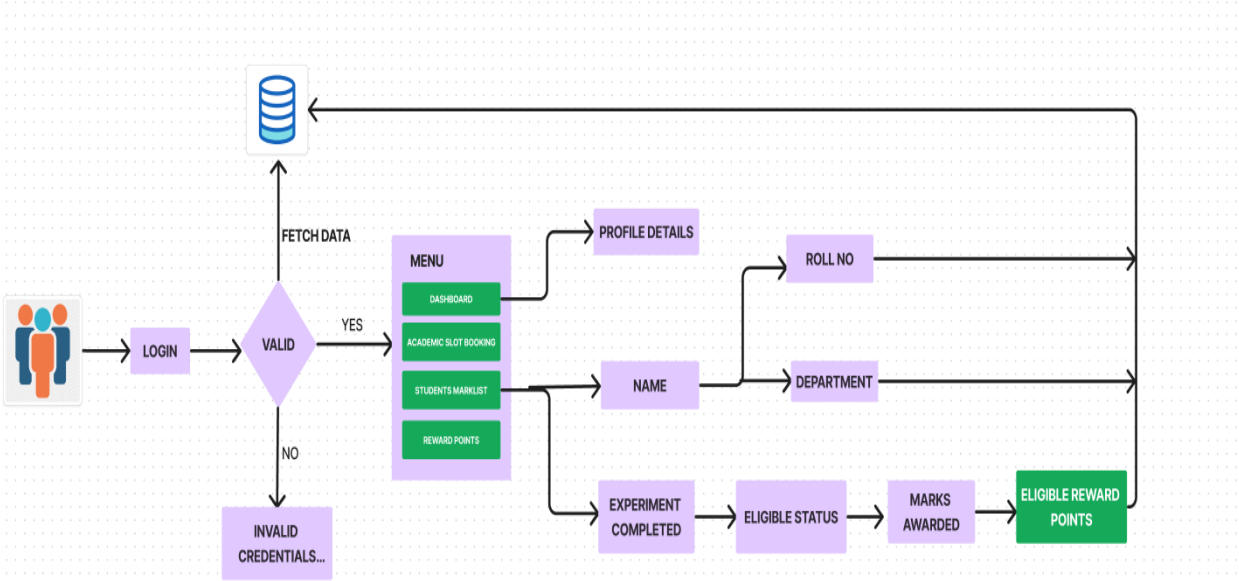
USER INTERFACE



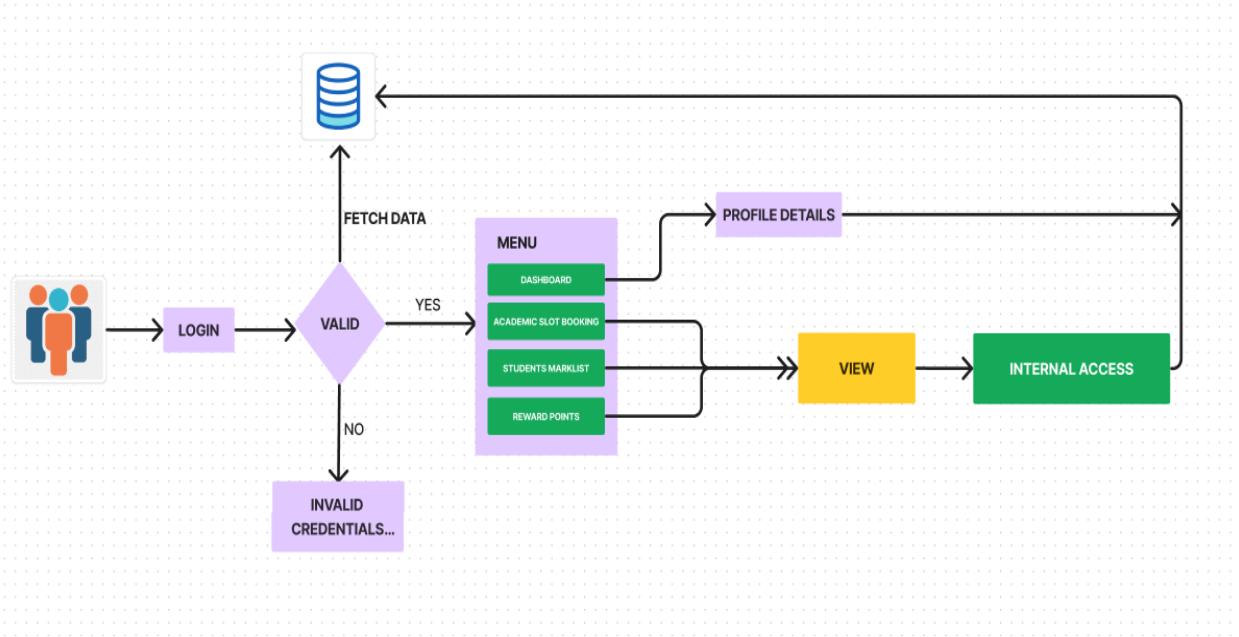
FACULTY INTERFACE



REWARDS TEAM INTERFACE



ADMIN INTERFACE



FUNCTIONAL REQUIREMENTS

User Management

- Users can login to the portal only with their college mail id.
- Admin,students,rewards team can view the data of all the students and can also maintain the analytical dashboard.

Registration

- Students should enter their Name,Rollno, Department,Lab course, and their lab course experiment number correctly

Admin Dashboard

- Admin can view all the details of the students marks and faculties allotted marks and gain reward points

NON-FUNCTIONAL REQUIREMENTS

Performance:

- Response Time: The system should respond to user inputs within 2 seconds.
- Throughput: The system should be able to handle up to 500 concurrent users without performance degradation.

Security:

- Data Protection: Personal and booking data should be encrypted both in transit and at rest.
- Authentication and Authorization: Users should be authenticated using a secure method, and authorization should ensure that users can only access their own data.

Usability:

- User Interface: The system should have an intuitive and user-friendly interface that requires minimal training.

Maintainability:

- The admin can change or alter the data in a specific place , it should not affect the other data.

Reliability:

- The system must be active at any time at least with a minimum speed, and there should be recovery or backup for the data .

Scalability:

- The system should give access to a large number of users and an increase in the number of users should not affect the accessibility of the other users. And it should accommodate an increase in the data.

STACK:

FRONT END	HTML CSS JS
BACK END	PYTHON DJANGO(python web)
DATABASE	POSTGRESQL MYSQL
API	OPEN API SOAP APIs RESTFUL API