SOFTWARE REQUIREMENT SPECIFICATION FOR PRODUCT REVIEW AND TRACKING SYSTEM.

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ROLL NUMBER	7376221SE155
SEAT NUMBER	95
PROJECT ID	15
PROBLEM STATEMENT	PRODUCT REVIEW AND TRACKING SYSTEM.

1. Introduction

1.1. Purpose:

The Product Review and Tracking System is a platform designed to facilitate manage the entire product development process, ensuring efficiency, accountability, and quality. This document provides a detailed description of Product Review and Tracking System, including its purpose, features, interfaces, operations, constraints, and reactions to external stimuli.

2. System Overview:

2.1. User Roles:

Admin: These are the student managers. They can view and update details for their assigned students, including personal information, grades, attendance, discipline records, and more.

Student: Students can only view their own information on the dashboard. This includes their academic history (semester by semester), grades, attendance, and other details.

Parent: Parents can see recent activity updates about their child. They can click for further details if they want to see more.

Stack - Spring Boot

Front End	React.js
Back End	Spring Boot
Database	MySQL
API	Open API / REST Ful API

Pre-Requirements:

HTML, CSS, Java Script, Node js, Open API.

2.2. Features:

Start

-> Login (Admin, Student, Parent)

Valid Login? (Valid / Invalid)

Valid -> User Dashboard (Based on Role)

Invalid -> Error Message

Admin

Dashboard

-> Manage Admins

➢ View Existing Admins

➢ Add New Admin (Details)

➢ Edit/Delete Existing

➢ approve or reject applications (with remarks),

➢manage appointments,

➢schedule meetings.

->Student Details Management

➢ Select Student

➢ View & Update Details:

1. Personal
2. Grades (Semester-wise)
3. Attendance (Semester-wise)

4. Disciplinary Records

5. Additional Information

Student Dashboard

-> View Academic History

➢ Semester-by-Semester

➢ Grades

➢ Attendance

➢ Other Relevant Details

Parent Dashboard

-> View Recent Student Activities

➢ Summary of Updates (Grades, Attendance etc.)

➢ Click for More Details (Optional)

3.1 Functional Requirements:

- User Management:
  - Students can login.
  - Admins have access control with an analytical dashboard and dedicated features
- Product Application:
  - Students can submit applications with appropriate details
  - Application form contains:
    - Title of Product
    - Category of the product (hardware/software)
    - Number of students involved with domain.
    - Problem statement document.
- Expert Committee Member Application:

  1.Name, Roll no., department,

  2. Project Category,

  3.Title, Domain,

  4. Faculty Name with id, Number of faculty,

  5. Provisional Attachment and

  6. Reward Points with Domain wise.
- Application Status:
  - Students can view the status of their application

- If the application is rejected then the remarks is shown.

● Appointment Scheduling (After Approval from Export Committee):

- Students can request appointments and book their shots.

● Analytics Dashboard:

- Admin can view the number of applications by its category
- Number of appointments is requested based on the category

3.2 Non-Functional Requirements:

Performance: Response within 2 seconds, handle 100 concurrent users.

Security: Data encryption, secure authentication.

Usability: Intuitive interface, clear error messages.

Reliability: 24/7 availability, backup and recovery.

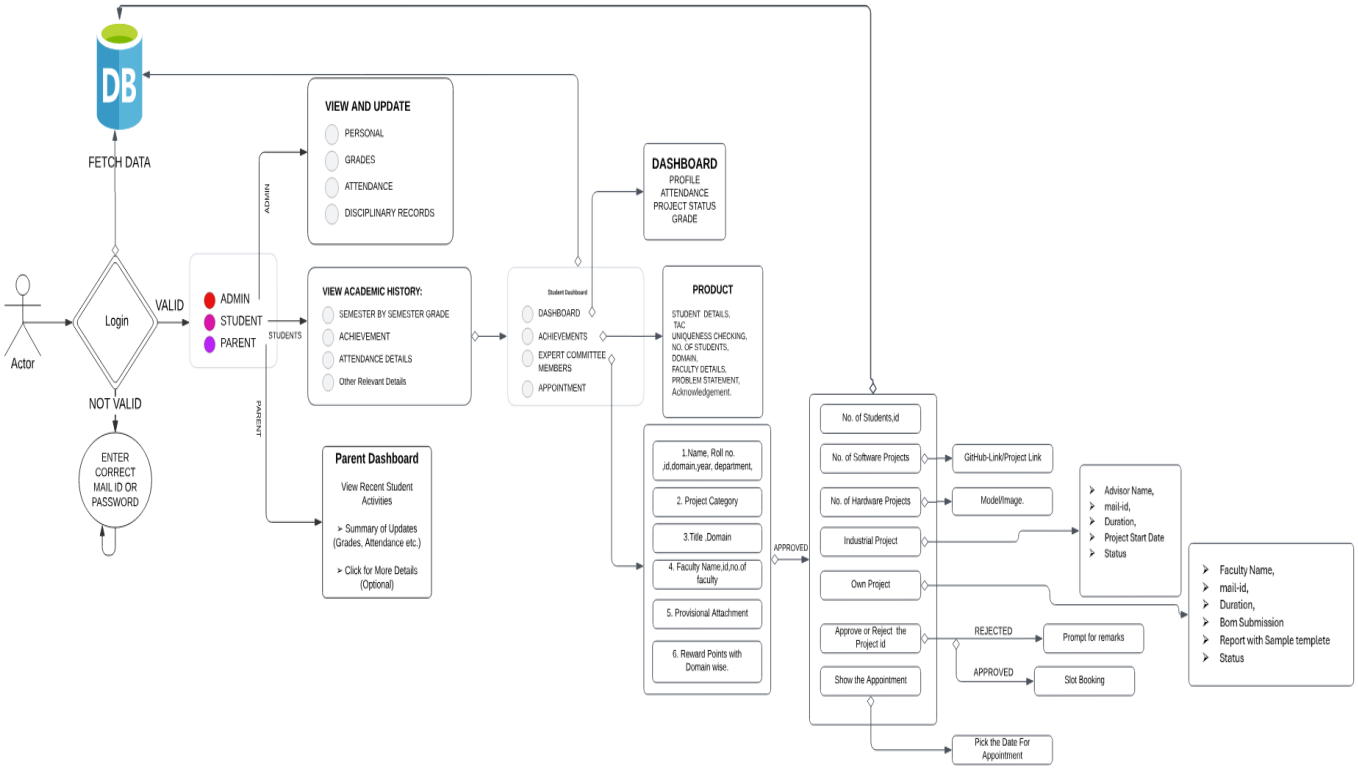
Scalability: Accommodate increasing users and data volume.

Backend:

Student entity:	Name, email, password, Roll no. (String)
Product Application:	Roll no, Details, category, title, number Of Students(Number), additional Students, pdf Path, status.
Export Committee Member Application:	Name, Roll no., department, Project Category, Title, Domain, Faculty Name, Number of faculty(Number), Provisional Attachment and Reward Points with Domain wise.
Appointment Entity:	Roll no, Product appointment Details

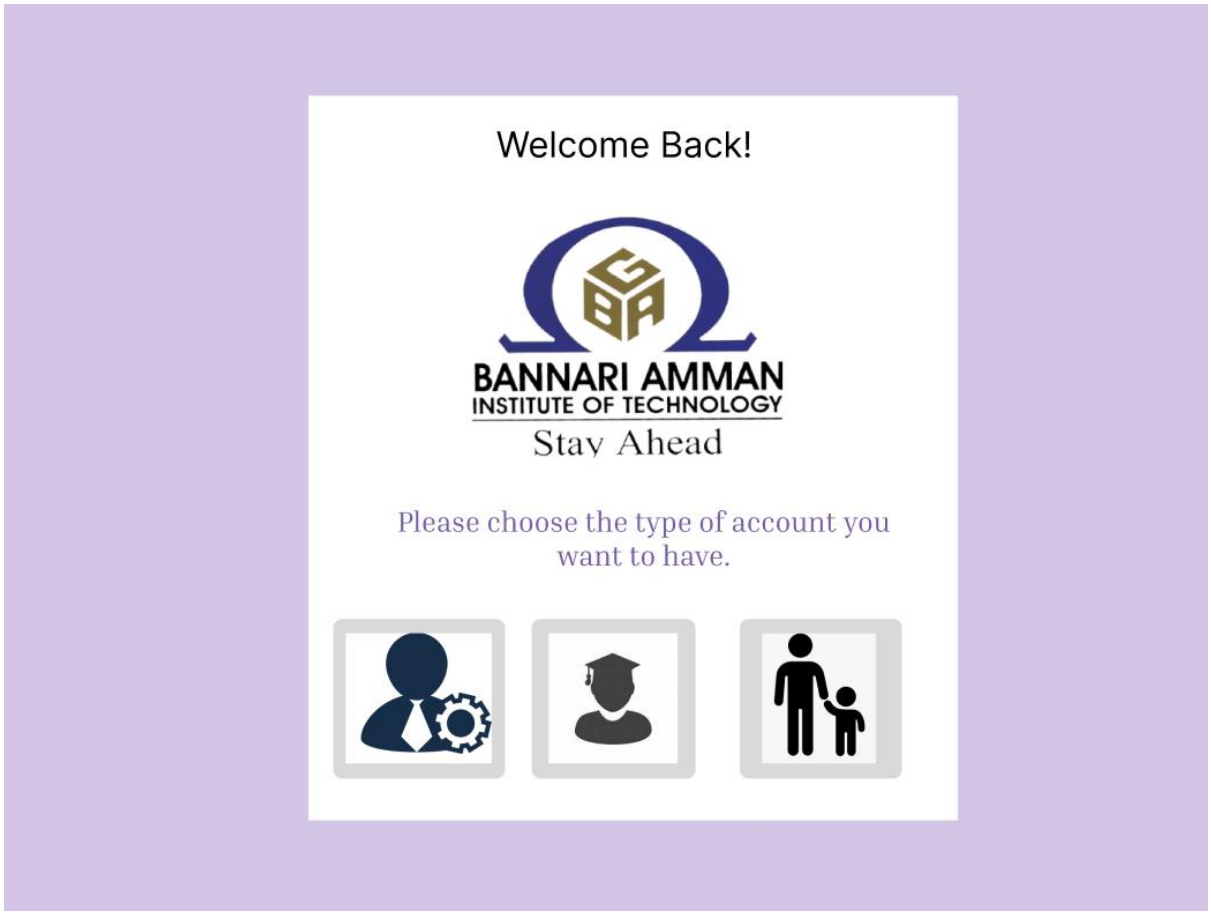
Project ID: 15 Domain: PS

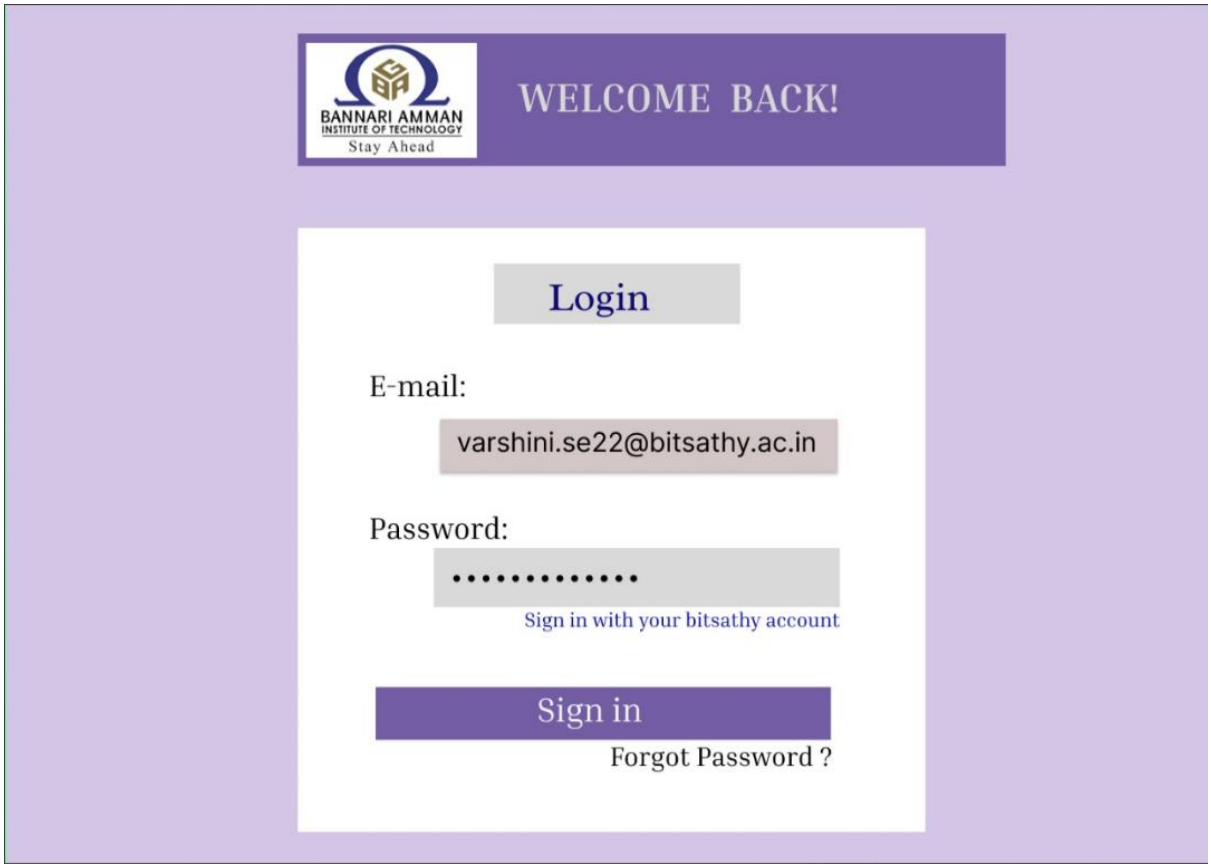
USER INTERFACE

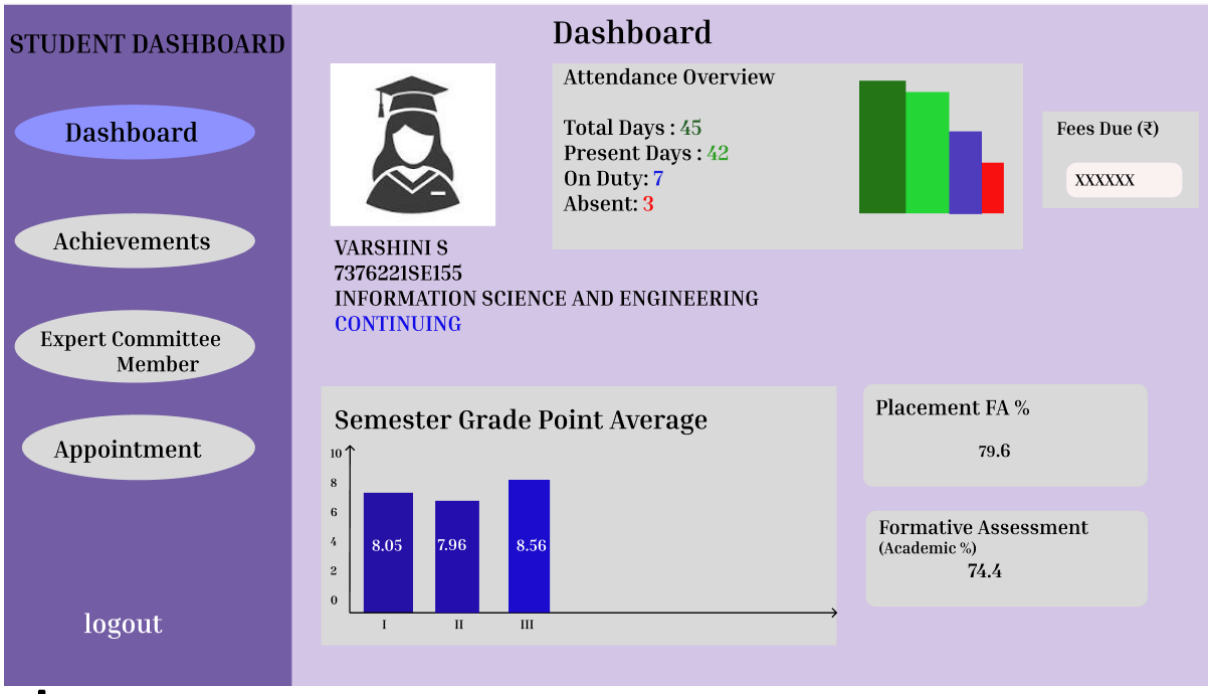


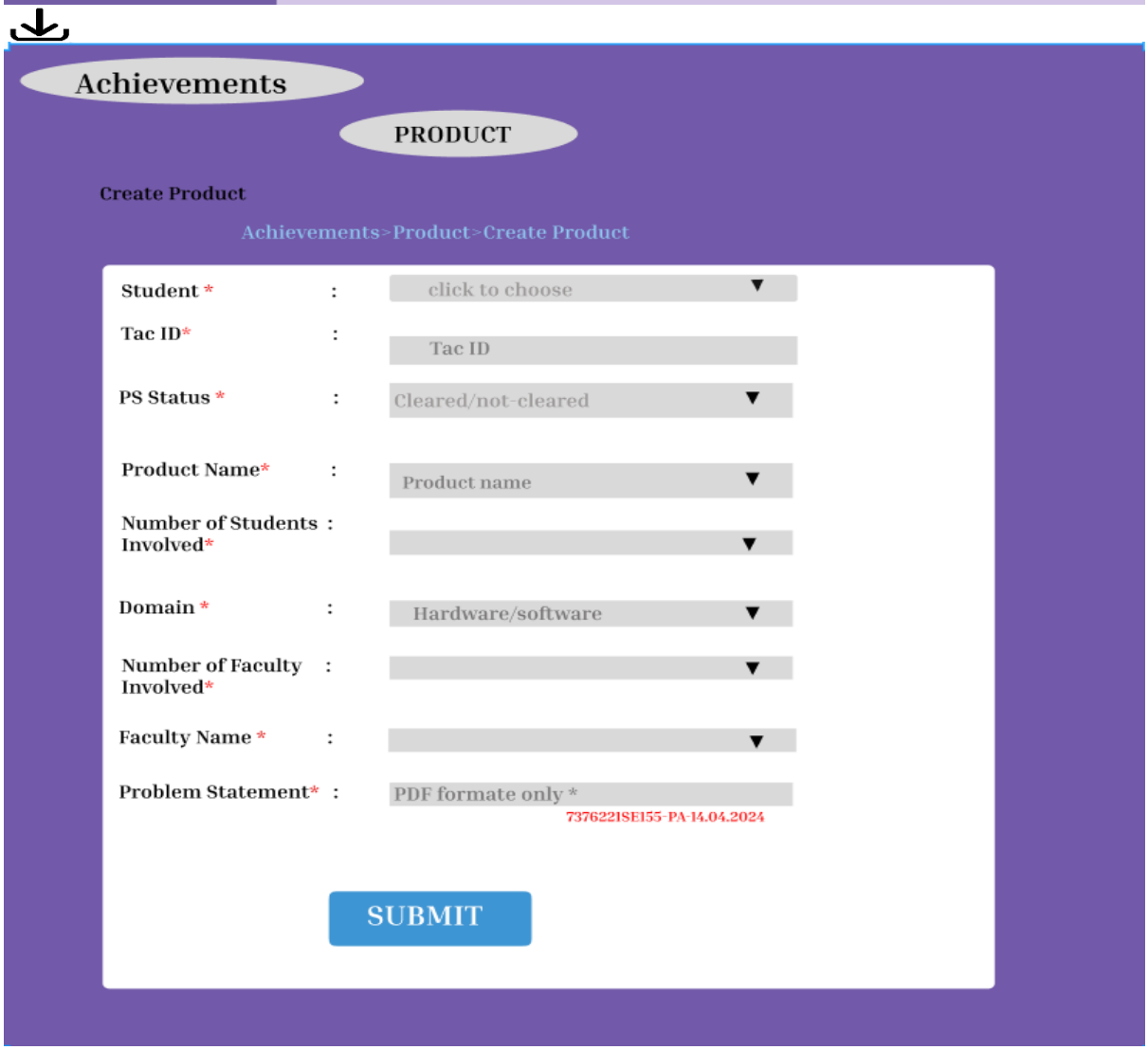
Project ID: 15 Domain: PS

PROTOTYPE:

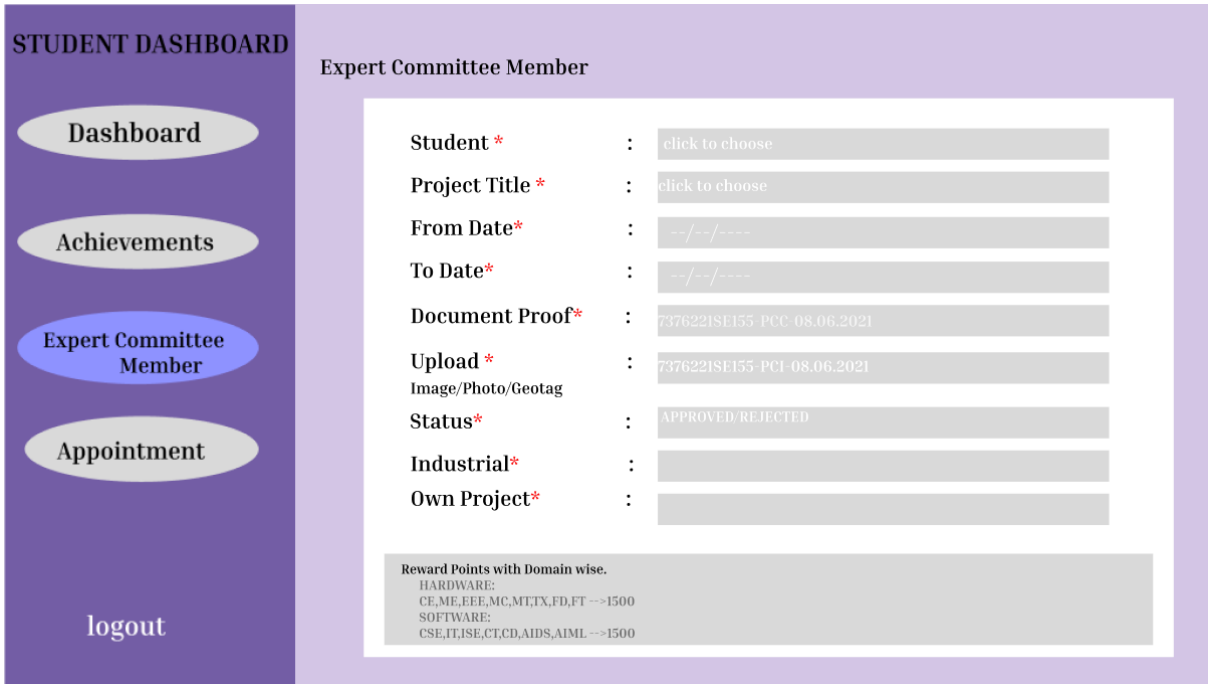


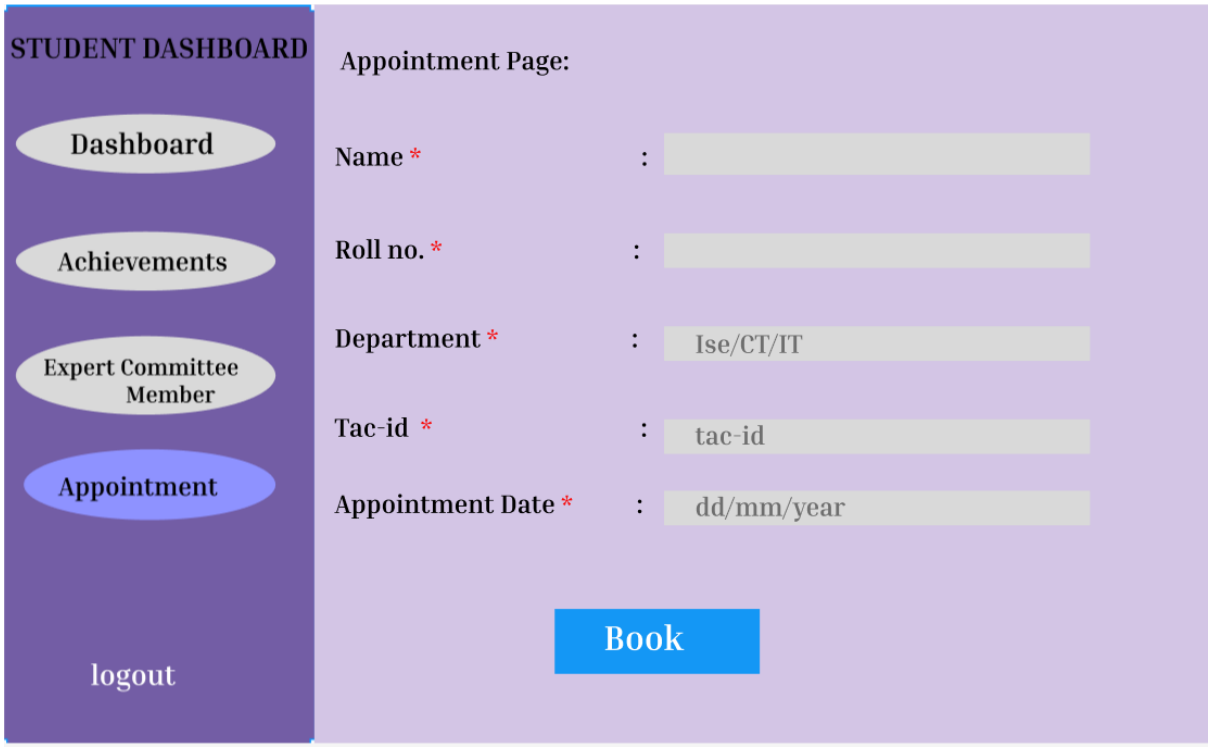
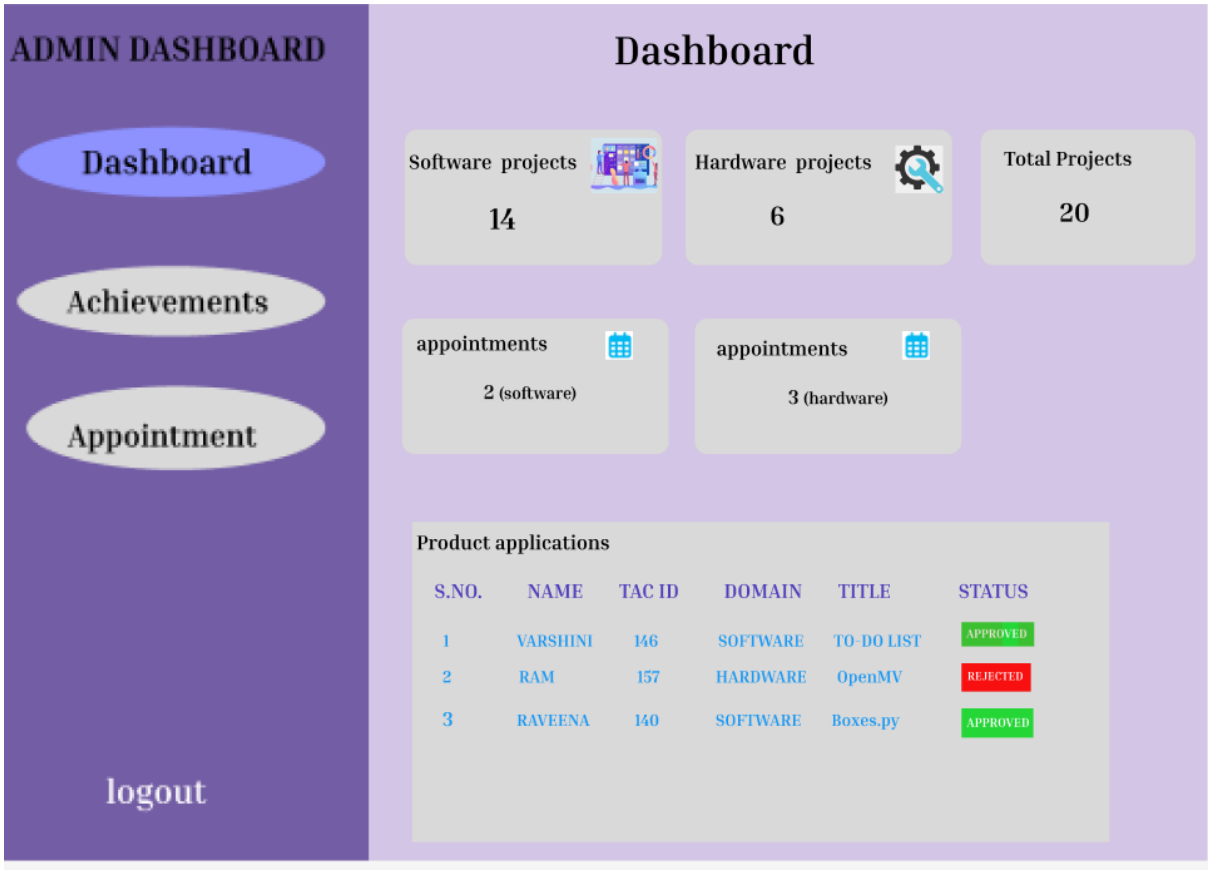



STUDENT DASHBOARD
Dashboard
Achievements
Expert Committee Member
Appointment
logout
Dashboard
Attendance Overview
Total Days : 45
Present Days : 42
On Duty: 7
Absent: 3
Fees Due (₹)
XXXXXX
VARSHINI S
7376221SE155
INFORMATION SCIENCE AND ENGINEERING
CONTINUING
Semester Grade Point Average
10
8
6
4
2
0
8.05
7.96
8.56
I
II
III
Placement FA %
79.6
Formative Assessment
(Academic %)
74.4


Achievements
PRODUCT
Create Product
Achievements>Product>Create Product
Student * : click to choose
Tac ID* : Tac ID
PS Status * : Cleared/not-cleared
Product Name* : Product name
Number of Students Involved* :
Domain * : Hardware/software
Number of Faculty Involved* :
Faculty Name * :
Problem Statement* : PDF formate only *
7376221SE155-PA-14.04.2024
SUBMIT

Project ID: 15 Domain: PS

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