SOFTWARE REQUIREMENT SPECIFICATION FOR SKILL TRAINING PORTAL

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PROBLEM STATEMENT	SKILL TRAINING PORTAL

1. INTRODUCTION

1.1. Purpose

The purpose of this document is to present a detailed description of the Skill training portal. 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 Skill training Registration, it enables students to register day skills and night skills, so that there will no repetition of skills of previous semester skills and also give more detailed information about the skill and good reference materials to enhance their knowledge much deeper and availability of the faculties for particular skill and gives you a reference project model and helps students to set a remainder to make time for focusing on their skills.

This software also focuses on reducing the manual calculations of marks and attendance and enables automatic calculation of attendance and marks percentage, and thus helps the student to know about their eligibility for final examination of the skill training i.e, if the attendance and marks scored in the regular days of the skill is more than 80% then they are eligible to attend the final assessment of the skill. And also help

the skill team to collect feedback from the students and solve their problems much faster.

2. SYSTEM OVERVIEW

2.1. Users

1.Students

Students can register their unique day and night skill in every semester without any repetition because the skills registered by the students in the previous semesters will not be displayed again. Students refer to the materials offered and get help from the allotted staff and also refer to the example projects given and also share their feedback.

2.Admin

Admin is allowed to view the skills offered and the number of students registered the skill and view the details of the students, trainers and faculties. 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

Unique registration of skill is allowed because skills registered in the previous semesters by the particular student is disabled and will not be displayed. Day skills are displayed according to their departments while night skill are open and displayed in two categories hardware and software.

3.Dashboard

Dashboard of the student contains the day and night skill attended by them in the previous semesters and also the marks scored by them in each day and night skill will be displayed as a graph showing the progress in each semester.

4.Study Material and remainder

Some students are very passionate about a particular skill, so to help them to learn deeper into that concept, we help them by providing study materials(i.e,

best youtube links or online courses) to the students. And also to boost such students we have add remainder in this , so that it sends a remainder to the student at the time fixed by them, thus they can make some time to improve their skills.

5. Faculties help and Sample Projects

To clarify the doubts raised by the students during their learning period, we will be mentioning some of the faculties who are experts in that particular field and to get some idea and clarification about the project we will be providing some sample projects (link or pdf) in this portal.
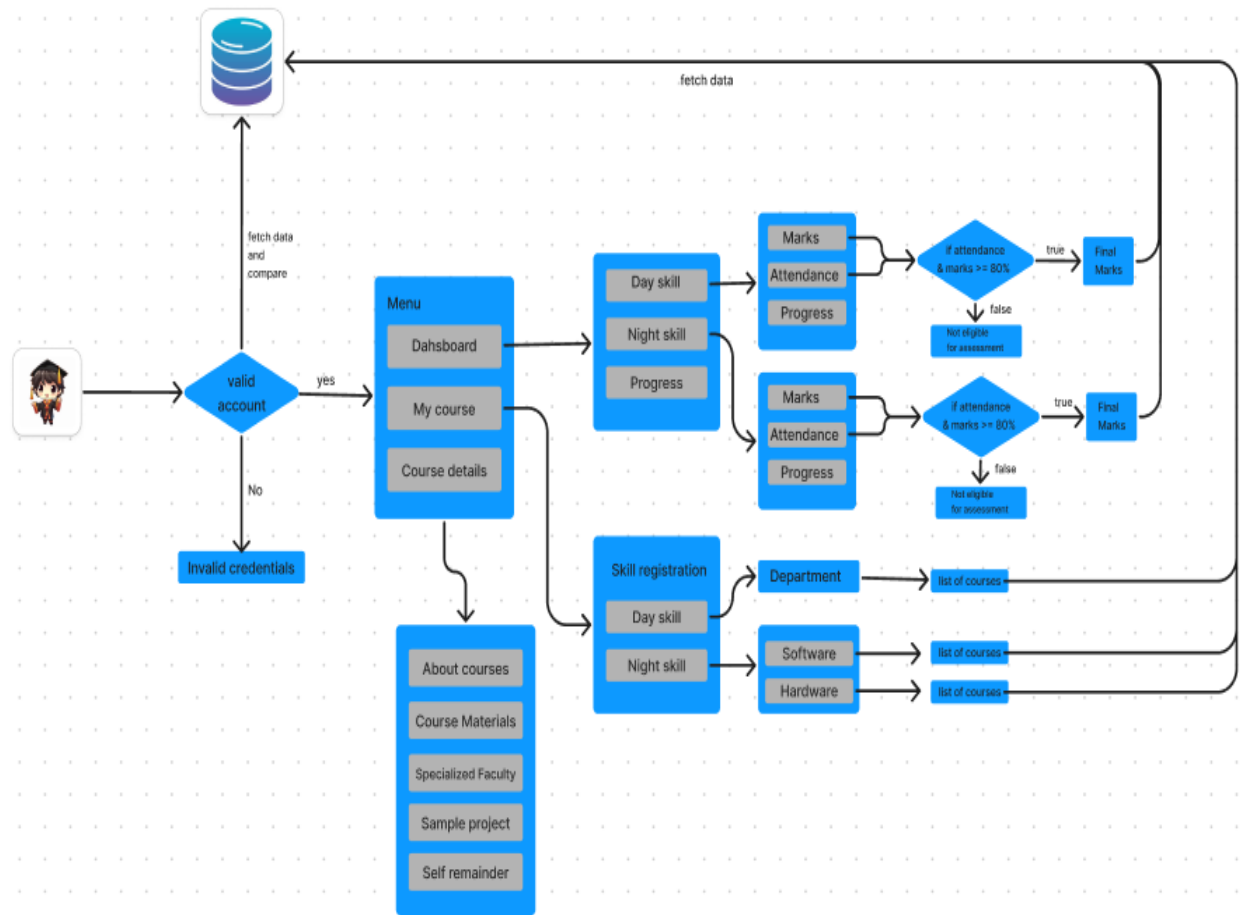
6. Automatic Calculation

It was designed in a way to do automatic calculation thus reducing the works of the staff and if the total attendance and marks are above or equal to 80% then they are allowed to attend the final assessment , else they are not allowed to attend the final assessment (the mark entry box for final assessment will not be opened).
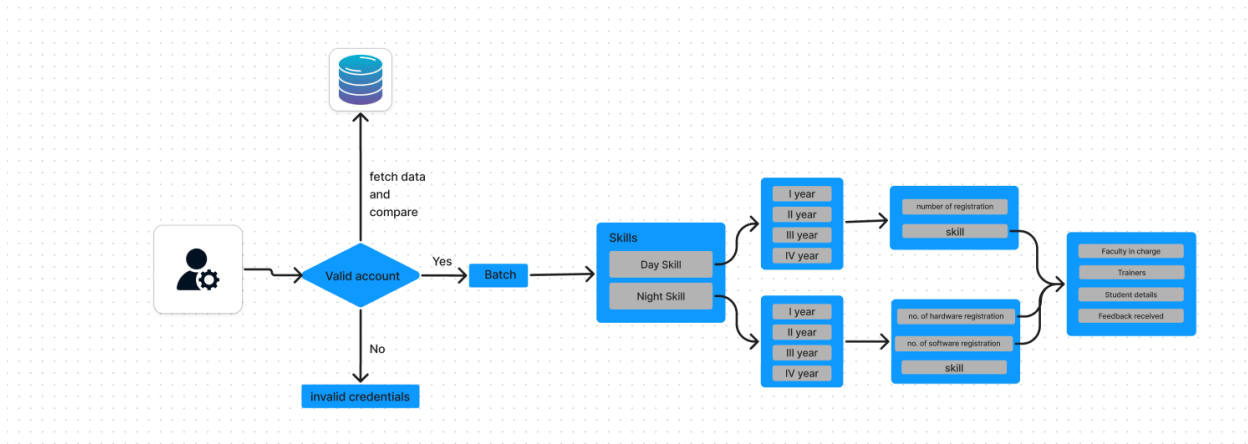
7.Feedback

To find the difficulties faced by the students during the skill and to know about the skill training satisfaction on that particular day , feedback was collected at the end of each day. This will be open for 1 hour at the end of each skill session, students can give their feedback within that time.
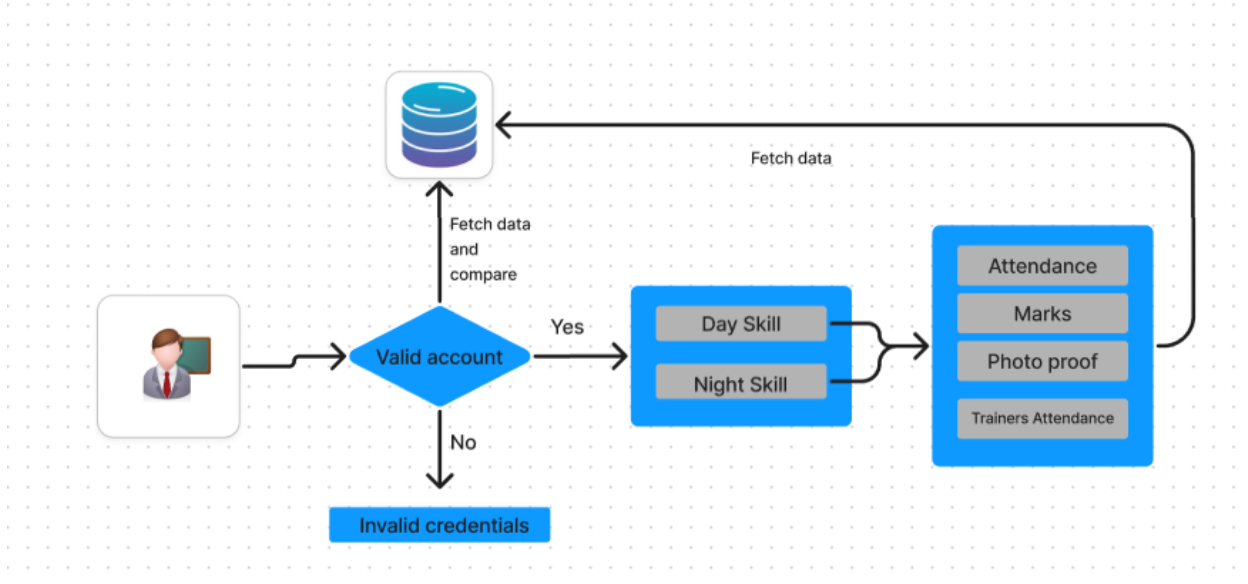
USER INTERFACE

Menu
- Dahsboard
- My course
- Course details

valid account — yes

fetch data and compare

No — Invalid credentials

Day skill
Night skill
Progress

Marks
Attendance
Progress

if attendance & marks >= 80% — true — Final Marks

false — Not eligible for assessment

Marks
Attendance
Progress

if attendance & marks >= 80% — true — Final Marks

false — Not eligible for assessment

fetch data

About courses
Course Materials
Specialized Faculty
Sample project
Self remainder

Skill registration
- Day skill
- Night skill

Department — list of courses

Software — list of courses
Hardware — list of courses

ADMIN INTERFACE

FACULTY INTERFACE

FUNCTIONAL REQUIREMENTS

User Management

- Users can login to the portal only with their college mail id.

- Admin can view the data of all the students and can also maintain the analytical dashboard.

Registration

- Students should enter their Department correctly in the day skill and hardware or software domain in night skill.

Skill Status

- Students can check their skill status (ongoing and completed) in the dashboard.

- They can also check the attendance and marks in their dashboard along with the progress of skill in each semester displayed in a graph.

Admin Dashboard

- Admin can view all the details of the students and faculties allotted for a particular skill and as well as trainers.

- Admin can view the feedback of all the students given at the end of each skill session.

Analytics Dashboard

- Admin can view the number of registrations in day and night skills.

● Admin can also view the number of registrations in each category in day and night skills.

NON-FUNCTIONAL REQUIREMENTS

Performance:

● Response time: The system must respond to user actions within 2 seconds to ensure efficient usability.

● Throughput: It must handle a concurrent user load of at least 1000 users without significant performance degradation.

Security:

● Only admin logging in with the authorized mail id is able to view and access the data of the admin.

● Students can only login with their college mail id and the students are able to view only their specific dashboard.

Usability:

● User Interface: The user interface should be intuitive and easy to navigate.

● Accessibility: The system should comply with the accessibility standards to reject the users with disabilities.

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	React JS
BACK END	Java with Spring Boot
DATABASE	My SQL and Postgre SQL