

Software Requirement Specification

Skill Training Portal

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Seat no : 357

Project Details :

Project Name	Skill Training Portal
Description	Build a skill training Portal that allows students to register for their preferred skill,write feedback on their daily tasks and view their daily progress and attendance,allows faculties to mark student attendance and enter daily task marks.Additionally,It allows the admin to view students performance and allot faculties for each courses and edit course details and syllabus.
Project ID	ID - 37
Stack	LAMP

1. Introduction :

1.1 Purpose :

The Skill training portal provides a centralized platform for facilitating skill

training and development for students. The portal allows students to easily access the available skills so that they can register for the skill they are interested in. The feedback system, attendance monitoring and task monitoring systems improve the efficiency of the skill training program and can help the administrators with improving the program.

1.2 Product Scope :

The scope of the product encompasses the development of a comprehensive skills training portal with features tailored to meet the needs of the students, faculty members and administrators. The project entails developing a web-based platform for the skill team enabling them to regulate the student work progress to facilitate easy access and management of student data, tasks and attendance tracking for both students and faculty members. The overall scope of this project is to give an analytical and user-friendly dashboard for the users to track their progress and performance in real time.

1.3 Product value :

The value of this product lies in its ability to streamline and enhance the skill training process of both students and faculty members by providing a centralized platform for skill registration, feedback submission, progress tracking, and attendance management. The product offers convenience and efficiency to all stakeholders involved. It also facilitates attendance percentage calculation and grade tracking for each student allowing easy monitoring of the student progress throughout the training.

1.4 Intended use :

For Students:

- Register for skill training sessions of their choice.
- Access learning materials and resources related to their selected skills.
- Submit feedback on tasks and track their progress over time.
- View their daily attendance records and performance metrics.

For Faculty Members:

- Mark student attendance during training sessions.
- Evaluate and assign marks to student tasks on a daily basis.
- Monitor student progress and performance.
- Communicate with students regarding their tasks and feedback.

For Administrators:

- Oversee the overall operation of the portal.
- Allotment of a faculty handler for each skill .
- Inserts the skill details and syllabus for each skill.
- Access comprehensive analytics and reports on student performance, attendance, and skill mastery.
- Make data-driven decisions to optimize the effectiveness of the skills training program.

2. Breakdown of Requirement :

The objective is to create a skill training portal that can be easy to access for students, skill handlers and skill team members. The portal should,

- Enable students to view the courses available for the semester and the syllabus of each given course.
- The portal should prevent students from repeating the courses that they have already practiced over their previous semester training program.
- Allows the students to view the marks awarded for their tasks and their attendance details.
- Allows the students to provide feedbacks for daily tasks
- Facilitate faculty to mark attendance and marks through the skill training program.
- Allows the admin members to view the overall reports on students performance and comprehensive analytics .
- Prohibits the student from attending the final assessment if the attendance percentage does not meet the given criteria.
- Admin is the one who feeds the list of the courses and allots faculty handlers for each course. Admin can edit the courses and has the ability to add new courses to the portal if necessary.

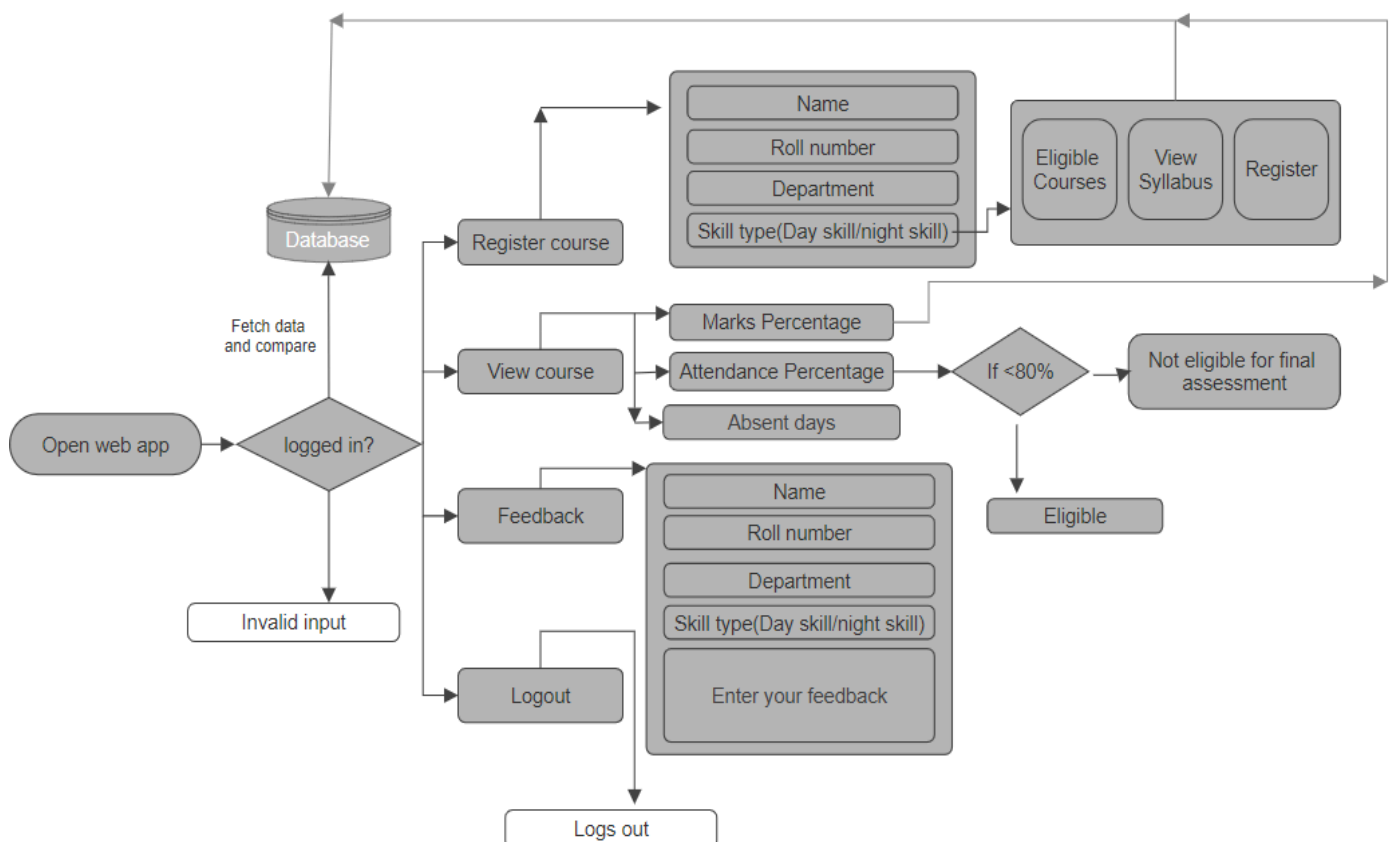
3.System Overview:

3.1 Users:

3.1.1 Students:

They have the ability to view the available courses and the respective syllabuses, register for the desired courses, view their daily performance and their attendance throughout the course.

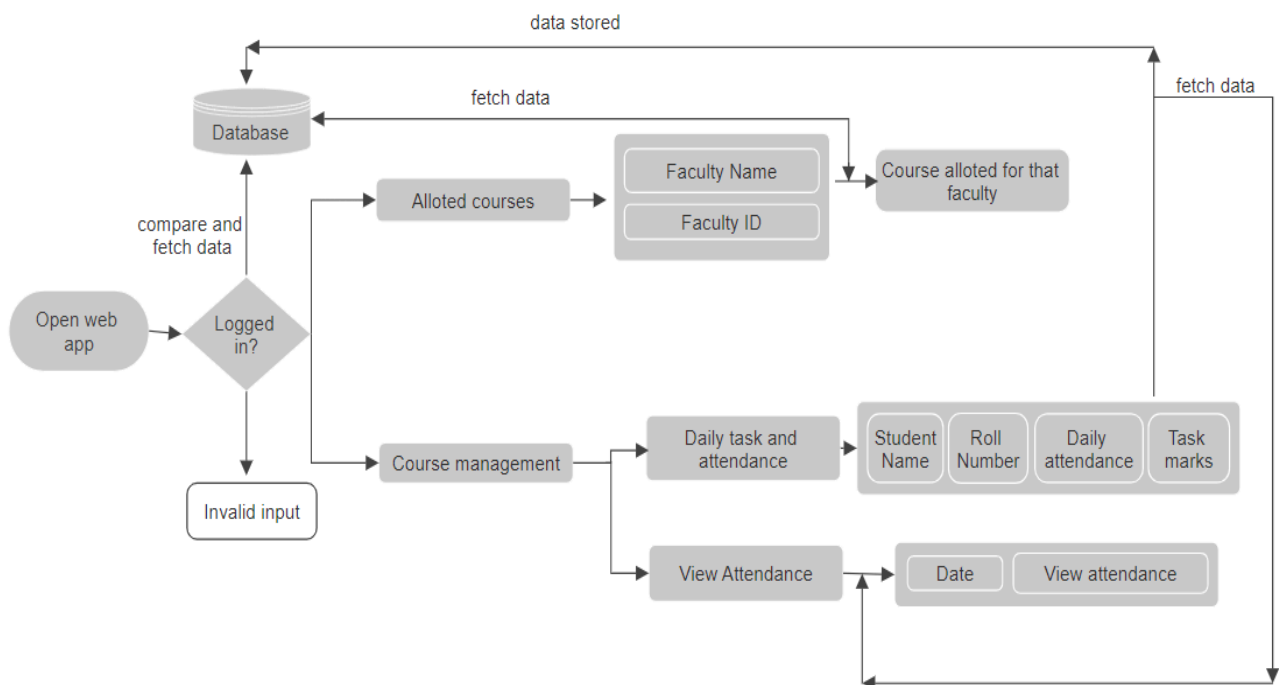
Student's interface:



3.1.2 Faculty:

The skill handlers have the ability to view the list of courses and their skill handlers of each course. They can also view the students undertaking the skill they are assigned to and mark their attendance and enter their evaluated marks for each day.

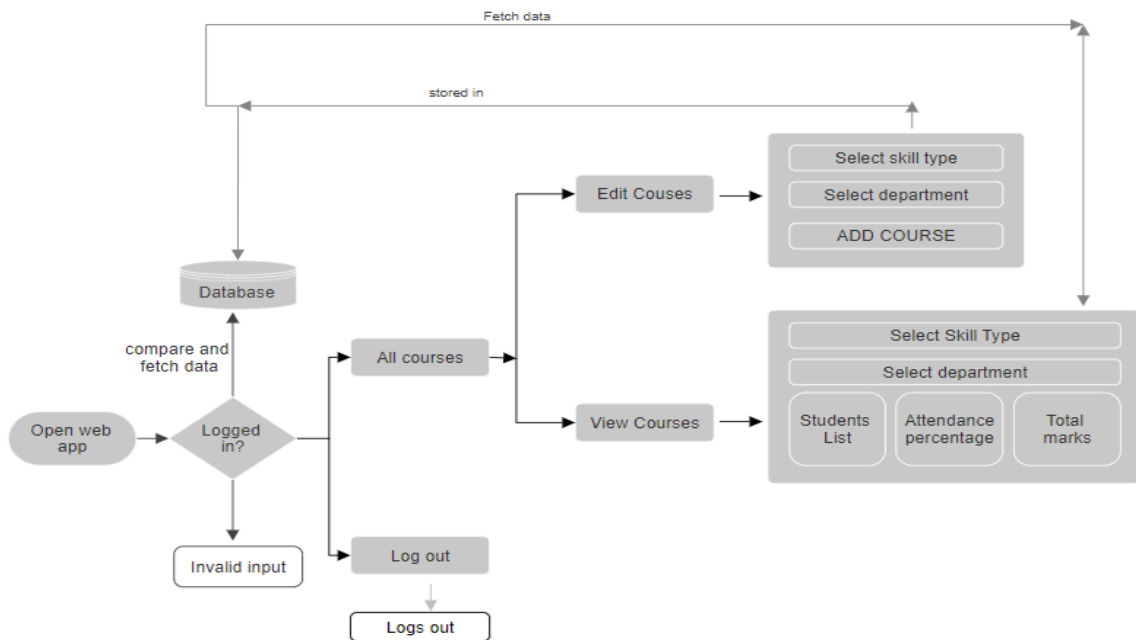
Faculty's interface:



3.1.3 Admin:

Admin have the ability to allot the courses for each department and can edit the courses if necessary. They can allot faculty handlers for each course. They can also view all the courses available , the faculties assigned to each course , the students undertaking each course and access the data to evaluate student performance.

Admin's Interface:



3.2.Key Features :

3.2.1 User registration and login:

- Allows users to login with their email id.
- Based on their mail id , they will redirected to their respective dashboards(student,faculty,admin)

3.2 Skill Catalog and Registration:

- Provide a catalog of available skills with syllabus for individual skills and faculty handlers.
- Allow students to browse skills, view details, and register for training sessions.
- Utilize a database to track students' past enrollments and ensure they are not repeating the skills they registered in their previous semesters.

3.3 Progress Tracking:

- Offer a dashboard for students to track their progress in their chosen skills.
- Allow students to provide feedback on their daily tasks.

3.4 Attendance management and task evaluation

- Allow faculty members to mark student attendance and evaluated marks for each training session.
- Allows the students to view their attendance percentage and their daily task marks.

3.5 Attendance Threshold for Final Assessment:

- Set a minimum attendance threshold (e.g., 80%) for students to be eligible to attend the final assessment.
- Display students' current attendance percentages prominently to keep them informed of their progress.
- Alert students when their attendance falls below the required threshold and provide suggestions for improving it.

3.5 Administration Dashboard:

- Provide administrators with a centralized dashboard to manage user accounts, permissions, and system settings.
- Allow administrators to oversee system activities.
- Allows the administrators to add and edit skills in the portal.
- Allows administrators to allot faculty handlers for each skill.

4. Stack Architecture and Infrastructure:

Hosting	Cloud hosting (e.g. AWS) on Linux VMs or containers
Database	MySQL (RDMS) for structured data.
Front-end	HTML , CSS , JavaScript , technologies
Back-end	PHP, Frameworks (Laravel), RESTful APIs

5. Dependencies

5.1 Google Authentication (Google Auth) :

This dependency includes ensuring seamless integration with Google's authentication services, such as OAuth, to allow users to securely log in using their Google accounts.

5.2 Proper Working and Performance of the Database:

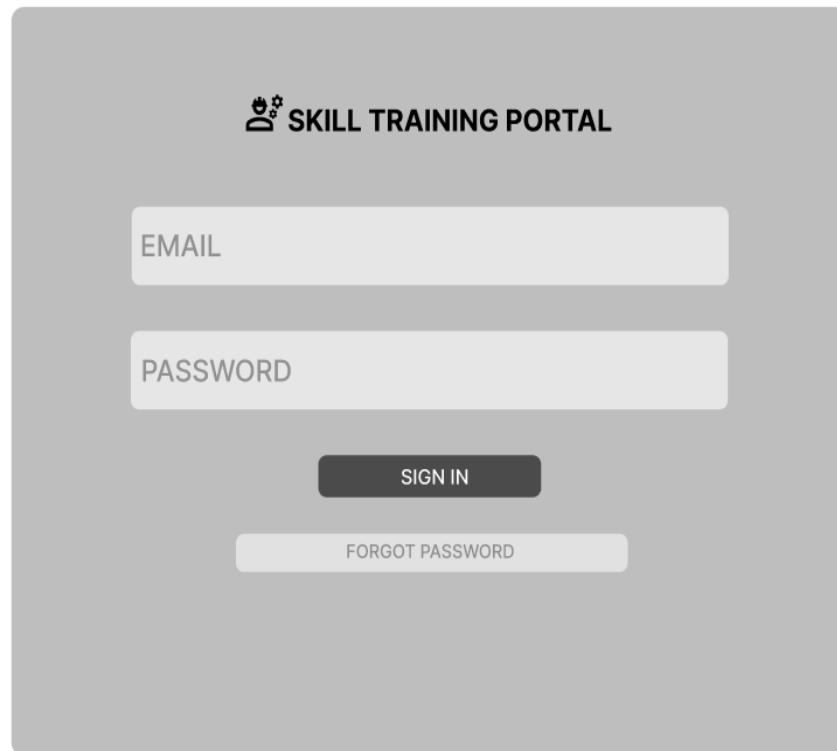
This includes designing an efficient database schema to store user data, events, news articles, job postings, and other relevant information. The database should be optimized for fast retrieval and storage of data to ensure smooth performance of the platform,

5.3 Proper Hosting:

This includes selecting a hosting provider that offers sufficient resources, scalability, and reliability to support the expected traffic and usage patterns of the platform. The hosting environment should also provide adequate security measures to protect user data and prevent unauthorized access

PROTOTYPE OF THE PROJECT:


1.LOGIN PAGE:




A login page prototype for a 'Skill Training Portal'. The page has a dark gray background. At the top center, there is a logo consisting of a person icon with a gear, followed by the text 'SKILL TRAINING PORTAL'. Below the logo, there are two light gray input fields. The first field is labeled 'EMAIL' and the second is labeled 'PASSWORD'. Below the password field, there is a dark gray button with the text 'SIGN IN'. Below the 'SIGN IN' button, there is a light gray button with the text 'FORGOT PASSWORD'.

2.IF A STUDENT LOGINS IN:

They can register for a course, view their course activity and submit feedback for the course.

 Skill Training Portal

HARINI S 

Register courses

View courses

Feedback

Logout

REGISTER FOR A COURSE

NAME

HARINI S

ROLL NUMBER

737622IEC172

DEPARTMENT


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


SELECT SKILL TYPE

DAYSKILL

SHOW AVAILABLE COURSES

COURSE ID	COURSE NAME	SYLLABUS	REGISTER FOR THE COURSE
EC301	INDUSTRIAL IOT	VIEW SYLLABUS	REGISTER
EC302	VLSI DESIGN	VIEW SYLLABUS	REGISTER
EC303	PLC	VIEW SYLLABUS	REGISTER
EC304	ANALOG AND DIGITAL CIRCUIT DESIGN	VIEW SYLLABUS	REGISTER
EC305	EMBEDDED SYSTEMS	VIEW SYLLABUS	REGISTER
EC306	PCB DESIGN AND MANUFACTURING	VIEW SYLLABUS	REGISTER

 Skill Training Portal

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Register courses

View courses

Feedback

Logout

COURSE DASHBOARD

DAY SKILL COURSE

INDUSTRIAL IOT

ATTENDANCE PERCENTAGE

89%

NUMBER OF DAYS ABSENT

3

TOTAL MARKS

430/500

NIGHT SKILL COURSE

PROTEUS

ATTENDANCE PERCENTAGE

70%


NUMBER OF DAYS ABSENT


7

TOTAL MARKS


300/500


NOTE:IF YOUR ATTENDANCE PERCENTAGE IS BELOW 80% , YOU ARE NOT ELIGIBLE FOR FINAL ASSESSMENT


 Skill Training Portal


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 Register courses

 View courses

 Feedback

 Logout

FEEDBACK FORM

NAME

ROLL NUMBER

MAIL -ID

SKILL TYPE

COURSE ID

FEEDBACK

SUBMIT

2. IF A FACULTY LOGINS IN:

- 1.They can view the skill allotted to them and other faculties.
- 2.They can view the names of the students registered for that particular course and they can mark their attendance and can enter the marks for their daily tasks.

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Allotted courses

Course management ▾

Logout

ALLOTTED COURSES

FACULTY NAME

ENTER FACULTY NAME

FACULTY ID

ENTER FACULTY ID

SHOW AVAILABLE COURSES

COURSE ID	COURSE NAME	FACULTY ID	FACULTY NAME
EC301	INDUSTRIAL IOT	ID326	XXXXXX
EC302	VLSI DESIGN	ID456	XXXXXX
EC303	PLC	ID567	XXXXXX
EC304	ANALOG AND DIGITAL CIRCUIT DESIGN	ID789	XXXXXX
EC303	VLSI DESIGN	ID904	XXXXXX
EC304	EMBEDDED SYSTEMS	ID234	XXXXXX
EC305	PCB DESIGN AND MANUFACTURING	ID098	XXXXXX
EC306	INDUSTRIAL IOT	ID231	XXXXXX

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Dashboard

Allotted courses

Course management ▾

DAILY TASK AND ATTENDANCE

Logout

DAILY TASK AND ATTENDANCE MANAGEMENT

COURSE NAME

ENTER COURSE NAME


COURSE ID


ENTER COURSE ID


ENTER


STUDENT NAME	ROLL NUMBER	ATTENDANCE	DAILY TASK MARKS
XXXXX	7376221YYYYY	<input checked="" type="checkbox"/>	XXXXXX
XXXXX	7376221YYYYY	<input type="checkbox"/>	XXXXXX
XXXXX	7376221YYYYY	<input checked="" type="checkbox"/>	XXXXXX
XXXXX	7376221YYYYY	<input checked="" type="checkbox"/>	XXXXXX
XXXXX	7376221YYYYY	<input checked="" type="checkbox"/>	XXXXXX
XXXXX	7376221YYYYY	<input checked="" type="checkbox"/>	XXXXXX
XXXXX	7376221YYYYY	<input type="checkbox"/>	XXXXXX
XXXXX	7376221YYYYY	<input checked="" type="checkbox"/>	XXXXXX


3.ADMIN LOGIN:


 Skill Training Portal

ADMIN 

 Dashboard

 Edit course

 View course

 Logout

EDIT COURSES

SELECT SKILL TYPE

DAYSkill / NIGHTSKILL

SELECT DEPARTMENT


SELECT DEPARTMENT


ENTER


COURSE ID	COURSE NAME	FACULTY HANDLER	FACULTY ID	EDIT COURSE
XXXXX	YYYYYYYY	ZZZZZZZZZZ	XXXXXXX	CLICK HERE
XXXXX	YYYYYYYY	ZZZZZZZZZZ	XXXXXXX	CLICK HERE
XXXXX	YYYYYYYY	ZZZZZZZZZZ	XXXXXXX	CLICK HERE
XXXXX	YYYYYYYY	ZZZZZZZZZZ	XXXXXXX	CLICK HERE
XXXXX	YYYYYYYY	ZZZZZZZZZZ	XXXXXXX	CLICK HERE
XXXXX	YYYYYYYY	ZZZZZZZZZZ	XXXXXXX	CLICK HERE


+ INSERT NEW COURSE


ADMIN CAN ENTER NEW COURSES AND ALSO EDIT THE AVAILABLE COURSES


 Skill Training Portal

ADMIN 

 Dashboard

 Edit course

 View course

Logout 

EDIT COURSE

INSERT COURSE

NAME OF THE COURSE

NAME OF THE COURSE

COURSE ID

ENTER THE COURSE ID

DEPARTMENT

ENTER THE DEPARTMENT

FACULTY HANDLER

NAME OF THE FACULTY HANDLER

FACULTY ID

ENTER THE FACULTY ID

SYLLABUS


UPLOAD SYLLABUS AS PDF DOCUMENT


CHOOSE FILE


CANCEL


+ INSERT


+ INSERT NEW COURSE


 Skill Training Portal

ADMIN 

 Dashboard


 Edit course

 View course

Logout 

EDIT COURSE

EDIT COURSE

REMOVE COURSE 

NAME OF THE COURSE

NAME OF THE COURSE

COURSE ID

ENTER THE COURSE ID

DEPARTMENT

ENTER THE DEPARTMENT

FACULTY HANDLER

NAME OF THE FACULTY HANDLER

FACULTY ID

ENTER THE FACULTY ID

SYLLABUS

UPLOAD SYLLABUS AS PDF DOCUMENT

CHOOSE FILE

CANCEL

UPDATE

+ INSERT NEW COURSE

