Software Engineering Project Team - 08

Milestone - 1

Identifying User Requirements Deadline by the end of Week 3 [13th October]

Tasks

- Identify primary, secondary and tertiary users.
- User stories for the requirements based on SMART guidelines.

Identifying Primary, Secondary and Tertiary Users

- Primary Users
 - Students
 - Regular Students
 - Working Professionals
- Secondary Users
 - Faculty/Instructors
 - Administrators
- Tertiary Users
 - Possible Students
 - Developers

Writing User Stories

Students

Course Selection:

- 1. As a student, I want to input my academic performance data, so that the system can provide **personalized course recommendations** based on my academic history.
 - As a working professional, I want to receive recommendations for courses related to my current job or desired career path, so that I can enhance my skills and advance in my career.

- As a student pursuing this degree as my sole degree, I want to filter course recommendations by subject & difficulty level, so that I can tailor my course selections to my specific needs and preferences.
- 2. As a student, I want to filter course recommendations by subject and difficulty level, so that I can get a **better insight** about the courses.
- 3. As a student, I want to specify my interests and career goals, so that the system can suggest courses aligning with my aspirations and help me achieve my educational and professional objectives.
- 4. As a student, I want to input the **number of hours** I can devote to the course (per week), so that the system can provide personalized course recommendations.
 - As a working professional, who can't devote their time completely to this degree, so that the system can provide personalized course recommendations that fit my schedule and workload.
 - As a student pursuing a regular degree, who can't devote their time completely to this degree, so that the system can provide personalized course recommendations that fit my schedule and workload.
 - As a student pursuing this degree as my sole degree, who will devote their time completely to this degree, so that the system can provide personalized course recommendations that fit my schedule and workload.
- 5. As a student with a specific course in mind, I want to be able to **search for that course** and receive **additional suggestions for similar courses or prerequisites**, so that I can explore related topics and options.
- 6. As a student who wants to explore new interests, I want the system to **suggest elective courses outside of my usual areas of study** to broaden my knowledge and also provide the functionality to check-out the course page itself, so that I can expand my horizons and discover new subjects.
- 7. As a student I want an option where I can **provide a course beforehand to the system** if I surely want to do it in the next term, so that I can **plan my future course enrollments in advance**.

Others:

- 1. As a student, I want to **provide feedback** on courses I have completed, so that the system can consider my input for future recommendations and improvements.
- 2. As a student, I want to see **detailed information about each recommended course**, including prerequisites, syllabus, and reviews, so that I can make well-informed choices about the courses I take.
- 3. As a student, I want to be able to **log in to my account and update my profile information** whenever my interests or academic goals change, so that the system can consider my input for future recommendations and improvements.
- 4. As a student, I want a feature that can provide an **answer to my queries**, so that I don't have to go someplace else to have my issues cleared.
- 5. As a student with a limited budget, I want the system to take into account the cost of courses and **suggest affordable options or courses**, so that I can access quality education without financial burden.
- 6. As a student who may change my mind, I want the ability to **save and compare multiple course recommendations** before making a final decision, so that I can make well-considered choices about my course selections.
- 7. As a student who wants to **track my progress**, I want the system to keep a record of the courses I've taken and the ones I plan to take, along with their completion status, so that I can stay organized and **monitor my academic journey**.

Administrator

- As an administrator, I want to manage user accounts and course content, including registration, authorization and authentication, so that I can ensure secure access to the system and provide users with a seamless experience.
- 2. As an administrator, I want to **generate reports** on user activity, course popularity, and system usage, so that I can gain insights into system performance and user behavior, enabling data-driven decision-making for system improvements.
- 3. As an administrator, I want an **FAQs page**, so that the students can have an answer to their general queries.

Faculty/Instructor

- 1. As a faculty member, I want to get some **feedback data for each course**, so that I can improve the quality of teaching and the course content.
- 2. As an instructor, I want to **track the enrollment of students** in my courses, so that I can efficiently manage course materials, and provide a better learning experience for my students.

Developers

1. As a developer, I want to integrate a **robust search functionality** within the system, so that users can quickly find courses and information they need.

• Possible Student

- As a possible student, I want to see statistics on course success rates and prerequisites, so that I can make informed decisions about which courses to take.
- 2. As a possible student, I want to **explore the courses** offered by IITM, so that I can make an informed decision about pursuing a degree here at IITM.

Optional Functionalities

If time permits, the following user stories will be implemented.

Students

- As a student, I want to receive regular notifications about recommended courses, deadlines, and updates, so that I can stay informed and plan my academic path effectively.
- As a student with a limited budget, I want to see information on any available scholarships or financial assistance for courses, so that I can explore opportunities to reduce the financial burden of my education and make informed decisions about my academic investments.
- 3. As a student pursuing a regular degree, I want the system to recommend advanced courses in my major that will help me meet my degree requirements and prepare for my career, so that I can make informed decisions about my academic path.

Administrator

- 1. As an administrator, I want to upload enrollment data from previous terms, so that the system can **analyze historical course enrollments for better recommendations**, improving the overall user experience.
- 2. As an administrator, I want to receive **regular notifications** whenever a student asks any query, so that I can provide an immediate response.

Developers

- 1. As a developer, I want to implement **a notification system** that informs users about system maintenance and updates, so that users are aware of any potential downtime or changes to the platform.
- 2. As a developer, I want to **provide an API (Application Programming Interface)** for third-party integrations, so that other educational tools and systems can connect with ours for a seamless user experience.
- 3. As a developer, I want to **conduct regular usability testing** and gather user feedback to continually improve the user interface and user experience, so that the system remains user-friendly and efficient.