



# Milestone: 1 Submission

## Types of users :

### Primary users:

- Students

### Secondary users:

- Admin

### Tertiary users:

- Course Professors or Instructors
- IITM BS academics team or student affairs team
- IITM BS Portal management team

## Users Stories :

### Primary Users

**User Story 1:** Getting input from students to recommend personalized learning paths

**As a** student,

**I want** to input my academic interests, learning goals, schedules, and commitments, **so that** the system considers my current preferences and constraints to recommend a personalized learning path.



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## User Story 2: Considering past performances

**As a** student,  
**I want** the system to consider my past performance in previous courses,  
**so that** the recommendations align with my academic strengths and weaknesses.

## User Story 3: Sharing course feedback

**As a** student,  
**I want** to share feedback on each course I have taken or finished,  
**so that** the system can consider my sentiments and ratings to enhance the recommendation engine.

## User Story 4: Feedback on the learning paths

**As a** student,  
**I want** to provide feedback on the recommended learning paths,  
**so that** the system can utilize my sentiments and ratings in the refinement of the recommendation engine.

## User Story 5: Enhancing recommendations through feedback

**As a** student,  
**I want** the system to consider both individual and peer feedback during course recommendations,  
**so that** my learning experience is personalized and benefits from collective wisdom.

## User Story 6: Providing multiple learning paths

**As a** student,  
**I want** to view multiple learning paths based on the same input provided,  
**so that** I have diverse options to explore and choose from.



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## User Story 7: Exploring popular learning paths

**As a** student,  
**I want** to explore different popular learning paths taken by my peers who are similar to me,  
**so that** I can gain insights, broaden my academic horizons, and make informed decisions about my own learning journey.

## User Story 8: Secure student interface

**As a** student,  
**I want** to prevent other students from accessing my personal data,  
**so that** I have confidence in the confidentiality and integrity of my data.

## Secondary Users

## User Story 1: Enrollment Data Management (CRUD)

### User story 1.1 Upload Enrollment Data (create)

**As an** admin,  
**I want** to upload enrollment data, such as student's learning profile, including their past academic performance, interests, and goals from previous terms,  
**so that** the system can use it to generate learning path recommendations.

### User story 1.2 Verify Enrollment Data (Read)

**As an** admin,  
**I want** to view or download a summary report of the uploaded enrollment data,  
**so that** I can verify its accuracy.



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## User story 1.3 Manage Enrollment Data (Update and Delete)

**As an** admin,  
**I want** to have the option to edit and delete uploaded enrollment data in case of errors,  
**so that** I can maintain data accuracy and reliability.

## User Story 2: Data security and privacy

**As an** admin,  
**I want** the access control feature to ensure secure access to enrollment data and prevent unauthorized entry.  
**so that** data integrity is maintained.

## User Story 3: Analytics

**As an** admin,  
**I want** to access student engagement and satisfaction matrix on the effectiveness of learning path recommendations,  
**so that** I can make informed decisions for system improvement.

## User Story 4: Considering course prerequisites and corequisites

**As an** admin,  
**I want** to efficiently manage courses, including their prerequisites, corequisites, and required minimum hours of study, by performing actions such as inserting, updating, and deleting,  
**so that** learning path recommendations align with academic requirements and regulations.

## User Story 5: Admin feedback for learning path reinforcement

**As an** admin,  
**I want** to provide feedback or ratings on recommended learning paths,  
**so that** the recommendation engine can be reinforced and fine-tuned for improved suggestions.



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## Tertiary Users

### User Story 1: Assessing course effectiveness

**As a** course professor or instructor,  
**I want** to get alerted if the rating of my course is less than 3,  
**so that** I can evaluate the effectiveness of my teaching methods and make improvements.

### User Story 2: Evaluating recommendation engine efficiency

**As a** member of the student affairs or academic team,  
**I want** to access data on student engagement with recommended learning paths,  
**so that** I can verify the efficiency and effectiveness of the recommendation engine.