



# Project Management Platform — MVP Requirements & Flow

---



## Project Name

WisePair

UniConnect

MitMentorSphere

---



## Problem Statement

Currently, project collaborations in college happen informally through Excel sheets and scattered communication, leading to mismanagement, poor team accountability, and limited visibility for professors.

**This platform will digitize and centralize the project team formation, mentorship selection, and project progress tracking process.**

---



## MVP Goals

- Enable students to form project teams (max 4 members)
  - Allow professors to choose teams they want to guide (max 3 teams per professor)
  - Let final-year/master's students volunteer as mentors for other teams
  - Public leaderboard ranking teams based on activity
  - Fair, clear, and smooth mentorship allocation process
- 



## System Users

- **Students**
- **Professors (Project Guides)**
- **Senior Student Mentors**
- **Admin (optional)**

---

## Core Features

### Team Formation

- Students can search other students by Name or Roll No.
- Max 4 members per team.
- First member to create a team becomes the **Team Leader**.
- Team leader invites others until the team is full.
- Once full, team formation is locked.

---

### Professor Mentorship

- Professors can view all formed teams.
- Professors send mentorship requests to teams.
- Professors can send requests to multiple teams but only **3 teams can accept them**.
- Teams receive mentorship requests in their dashboard.
- **The Team Leader accepts one professor.**
- After selection:
  - Team is locked with that professor.
  - Professor's accepted team count increases.
  - Other pending requests to that team are automatically declined.

---

### Senior Student Mentors

- Final-year/master's students can volunteer as mentors.
- Teams can request a mentor.
- Mentors can accept or reject.
- Max 1 senior student mentor per team.

---

### Leaderboard

- Real-time ranking of teams based on:
  - Number of meetings scheduled/logged
  - Idea submissions (if part of MVP)
  - Mentor feedbacks
- Top 5 and Bottom 5 teams shown publicly.

---

## System Flow Diagram

I'll lay this out as a clean step-by-step flow first (text format), then I'll render a diagram image for you too.

### System Flow

- 1 Students register/login
  - 2 Create/Join a team (Max 4 members)
  - 3 Professors log in and browse team profiles
  - 4 Professors send mentorship requests (max 3 active acceptances)
  - 5 Teams receive requests
  - 6 Team Leader accepts one professor
  - 7 Senior Mentors volunteer
  - 8 Teams request senior mentors
  - 9 Mentors accept or reject
  - 10 Leaderboard updates based on activity
- 

## System Architecture Overview (Non-Technical)

- **Frontend:** Web App Interface (for students, professors, mentors)
- **Backend:** Server handling team creation, mentorship requests, leaderboard scoring
- **Database:** Stores students, teams, professors, mentors, mentorship requests, leaderboard scores
- **Notification System:** For real-time updates (optional for MVP)

## Requirements Summary

Feature	Priority	Notes
Student registration & team creation	Must Have	Max 4 members
Professor mentorship requests	Must Have	Max 3 acceptances
Mentor acceptance workflow	Must Have	Final-year/masters
Leaderboard (Top 5, Bottom 5)	Must Have	Based on activity
Auto-decline pending mentor requests	Must Have	After team locks a professor
Real-time request count limit	Must Have	3 per professor
Unassigned teams handling	Optional	Admin intervention or open mentor pool

## Wireframe Scope for Your MVP

I'll create wireframes for:

1. **Student Dashboard**
2. **Team Formation Page**
3. **Professor Dashboard**
4. **Mentor Dashboard**
5. **Leaderboard Page**

## students

Column	Type	Notes
id	UUID	Primary Key
name	String	
roll_no	String	Unique
email	String	
year	String	FY/SY/TY/BE/ME
password_hash	String	
team_id	UUID	Nullable (FK to <code>teams</code> )

## teams

Column	Type	Notes
id	UUID	Primary Key
team_name	String	
leader_id	UUID	FK to <code>students</code>
professor_id	UUID	Nullable, FK to <code>professors</code>
senior_mentor_id	UUID	Nullable, FK to <code>mentors</code>
is_locked	Boolean	Team formation complete or not

## professors

Column	Type	Notes
id	UUID	Primary Key
name	String	
department	String	
email	String	
accepted_team_count	Integer	Max 3

## mentors (senior students)

Column	Type	Notes
id	UUID	Primary Key
name	String	
year	String	
email	String	



## mentor\_requests

Column	Type	Notes
id	UUID	Primary Key
professor_id	UUID	FK to professors
team_id	UUID	FK to teams
status	String	pending / accepted / rejected



## senior\_mentor\_requests

Column	Type	Notes
id	UUID	Primary Key
mentor_id	UUID	FK to mentors
team_id	UUID	FK to teams
status	String	pending / accepted / rejected

## leaderboard\_scores

Column	Type	Notes
id	UUID	Primary Key
team_id	UUID	FK to <code>teams</code>
meetings_done	Integer	
tasks_done	Integer	
mentor_feedback_count	Integer	
total_score	Integer	