MVP

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Team PM (NetIDs): lilyl4

What problem is your project trying to solve?
(What audience is it for? How will your project solve the issue?)

- **Helping people find a study group on campus based on classes they are taking and their schedules**

What features make up your MVP (Minimum Viable Product)?
(What features do you hope to accomplish by the end of the semester?)

- Window where users can create or join a session
- Window where people can input their class schedule
- Ranking sessions based on similarities
- Window where people can rate their study session after it's finished
    - Trains AI model that recommends study sessions based off of your goals

What are some additional features outside the MVP?
(A list of features that would be nice to add after finishing the MVP.)

- Either the study session recommender OR the model giving study prep materials based off syllabus/notes
- Add office hours as "sessions" on the app!
- Stretch goal: Study Partner Recommendation System (Prob with weights)
- Open Street Map Feature: Built in map for study locations
- Office Hour Groups for Profs/TAs
- GCal link

Which does the tech stack look like and why did you choose these over alternatives?
(Feel free to discuss with your PM! Examples: React, Python, Java, etc. You do not need to know how to use these right now.)

- **React Native**
- **Tailwind CSS**
- **Node.js**
- **Supabase/Firebase (for authentication)**
- **Anything else? (Postman for api testing??)**

What will the project timeline look like?

SPRINT 0 (09/15):

- Discuss project ideas + project MVP
- Set up a meeting time for each week
- Set up github and environment

SPRINT 1:

- Finalize MVP + finalize idea
- Continue setting up github and environment
- Start discussing how the UI should look

SPRINT 2: Frontend & Auth Setup

Goal: Build app skeleton and authentication screens so users can register/login.

- Set up React Native project (Expo recommended for speed).
- Build login/register UI screens with navigation.
- Mock backend connection so auth flows can be tested.
- Create placeholder pages for profile and session list.

SPRINT 3 (Week 3) - Backend Auth & Basic Session CRUD

Goal: Set up backend authentication and ability to create/list sessions. (A basic mobile app skeleton with authentication UI connected to mock backend data.)

- Node.js + Express backend setup.
- Set up database schema (Supabase or Firebase):
    - Users table
    - Sessions table
- Implement authentication backend (register/login).
- Create API endpoints for:
    - Create session
    - Get list of sessions.
- Connect frontend login/register with backend auth.
- Connect frontend session creation/list to backend.
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SPRINT 4 (Week 4) - Session Details & Participation

Goal: Add joining/leaving sessions and view session details.

- Backend:

    - API endpoints for joining/leaving sessions.
    - Endpoint to get session details.

- Frontend:
    - Session detail page UI.
    - Join/leave session buttons.
    - View list of participants.
- Connect frontend → backend for participation flows.
  Deliverable:

- Users can create sessions, view session lists/details, and join/leave sessions.

This is what we will demo for your midterm presentation (10/18 - 10/19):
A working mobile app where a user can register/login, create a study session, view available sessions, and join one — all connected to a backend.

SPRINT 5 (Week 5) - Feedback & Ratings

Goal: Enable users to rate and review sessions.
Tasks:

- Backend:
    - Feedback table and endpoints.

- Frontend:
    - Feedback form UI.
    - Display feedback in session details page.

- Connect frontend → backend.
  Deliverable:

- Working rating and feedback system.

SPRINT 6 (Week 6) - Search & Filtering

Goal: Implement session search/filter functionality.
Tasks:

- Backend:
    - Search API endpoint.
- Frontend:
    - Search bar and filter UI.
- Connect frontend → backend for session searching.
  Deliverable:
- Users can filter and search for sessions by course, time, or location.

SPRINT 7 (Week 7) - UI Polish

Goal: Improve UX for smoother experience.
Tasks:

- Style UI using Tailwind/React Native Paper.
- Add loading states and error messages.
- Improve navigation flow.
  Deliverable:
- Polished, user-friendly UI.

SPRINT 8 (Week 8) - Stability Testing

Goal: Fix bugs and ensure reliability.
Tasks:

- Test all flows.
- Fix frontend/backend bugs.
- Ensure database stability and proper auth flows.
  Deliverable:
- Stable, ready-to-use app for post-midterm expansions.

SPRINT 9 (Week 9) - AI & Recommendation Prep

Goal: Plan AI features (like user connection recommendations).
Tasks:

- Design recommendation logic.
- Prepare backend for AI data input/output.
  Deliverable:
- Clear plan for Sprint 10+ AI work.

FINAL PRESENTATION (12/6-12/7)

(Discuss this with your PM as well! You don't have to stick to it, but this should give you a general guideline for how the project should progress.)