

# Technical Project Proposal for Peerwell AI-driven Peer-Learning Platform MVP

## Executive Summary

This proposal outlines the development of Peerwell’s AI-powered peer-learning MVP, automating peer-learning sessions with emotional intelligence discussions. The platform integrates Recall.ai for video conferencing, OpenAI’s GPT-4 for chatbot facilitation, Airtable for user management, Doodle for scheduling, and Zapier/Make for workflow automation. The MVP eliminates the need for custom interfaces, focusing on automating key processes and creating a streamlined user experience.

## Objective

- Develop a no-UI MVP for automated peer-learning sessions.
- Facilitate group discussions with an AI chatbot using OpenAI GPT-4.
- Automate meeting scheduling, participation, transcription, and follow-ups using Recall.ai and Zapier/Make.

## Tech Stack

Component	Technology	Purpose
Programming Language	Python	Scripts for bot configuration, APIs, and automation logic.
Data Management	Airtable	Manage user data, groups, and session details.
Scheduling	Doodle + Zapier/Make	Automate scheduling and meeting invitations.
Video Conferencing	Zoom/Google Meet + Recall.ai	Automate bot participation and transcription.
Chatbot	OpenAI GPT-4	Facilitate peer-learning discussions dynamically.
Automation	Zapier or Make	Integrate Airtable, Doodle, Gmail, and feedback workflows.

API Integrations	Recall.ai + Zoom API	Manage video conferencing and real-time interaction.
Feedback Collection	Typeform/Google Forms	Gather participant feedback post-session.

## System Architecture Overview

- User Registration & Group Assignment:** Use Airtable to collect user data, with admins assigning groups manually.
- Scheduling:** Doodle polls allow participants to coordinate meeting times.
- Video Conferencing:** Recall.ai manages the chatbot's entry and transcription in Zoom/Google Meet.
- Chatbot Facilitation:** GPT-4 guides discussions using real-time input.
- Post-Session Summary & Feedback:** Automated follow-ups and feedback collection using Recall.ai and Zapier/Make.

## Development Plan & Milestones

Phase	Timeline	Deliverables
Phase 1: Setup & Configuration	Week 1-2	Airtable form, Doodle poll, basic automation.
Phase 2: Recall.ai Integration	Week 3-4	Bot joins meetings and transcription working.
Phase 3: Chatbot Development	Week 5-6	GPT-4 chatbot with predefined scripts integrated.
Phase 4: Post-Session Workflow	Week 7	Automated summaries and feedback forms.
Phase 5: Testing & QA	Week 8	End-to-end testing and adjustments.

## Development Tools & Setup

- Python Environment:** Set up virtual environment for development.
- API Keys:** Secure API keys for Recall.ai, OpenAI, and Zoom/Google Meet.
- Version Control:** Use GitHub/GitLab for collaborative development.

- **CI/CD Pipeline:** Implement GitHub Actions for automated testing.

## Timeline & Milestones

Estimated project duration: **8 weeks**.  
Completion by end of Week 8 with full end-to-end testing.

## Risks & Mitigation Strategies

Risk	Mitigation Strategy
Bot fails to join meetings on time	Pre-session checks using Recall.ai monitoring.
Real-time transcription errors	Implement fallback logic for chatbot responses.
Scheduling conflicts	Send reminders using Doodle and Gmail.
Chatbot engagement issues	Monitor test sessions and adjust scripts.

## Conclusion

This project proposal outlines the development of a minimal viable product (MVP) for Peerwell’s peer-learning platform. The focus is on streamlining operations with Recall.ai, GPT-4, and Zapier/Make. The project aims to deliver the MVP within 8 weeks, with a total budget of \$3800 to \$4000. This lean approach ensures efficient delivery and validation, with the possibility of scaling in future iterations.