

Team Number: 17

Team Members: Brian Qi, Roberto Healy, Aditya Menon, Ling-jet Chee, Jeff Chen, Auden Huang

1. Problem statement:

Currently, when starting new projects, either academic or personal, it can be difficult to find teammates with matching skills and interests. Additionally, deciding how to manage that project afterward can be a hassle. Our project matches users with the right people for their project and provides a platform to help manage the project after a team has been formed. Currently, there are similar services that people can find online for finding teammates or for collaboration. However, none of those services provide an all-in-one project service that not only helps with forming teams but also includes document editing, messaging, calling, and task management features that simplify the project creation and organization process by eliminating the need to connect on several different platforms to achieve different tasks.

2. Project Objectives

- Web application with account system
- Allow users to create projects and set requirements
- Allow users to apply to join projects that are already created on the platform
- Allow users to review the applicants to their projects
- Allow users to see what project they've joined
- Users can look for other users on the platform
- Users can look for projects on the platform through search and/or using filters
- Users can text each other
- Allow users to display their skills and interests on their profile
- Recommend projects for users based on their skills and interests
- When inside a project, users will have access to project management tools
- Allow users to add other users to their friend/ connection list

3. Stakeholders

Users: Purdue students looking to find teammates for their project ideas or students looking to join a project team.

Developers: Brian Qi, Roberto Healy, Aditya Menon, Ling-jet Chee, Jeff Chen, Auden Huang

Project Manager: Vibhu Sehra

Project Owners: Brian Qi, Roberto Healy, Aditya Menon, Ling-jet Chee, Jeff Chen, Auden Huang

4. Deliverables

- Frontend
 - Login & Account Creation
 - Users can login or choose to create a new account
 - Users can enter skills and interests as part of profile creation
 - Main page
 - Displays a social media type feed where users can search/filter for other users and open projects
 - User pages
 - Users can see other users they've connected with
 - Users can view their own profile
 - Users can view other user profiles
 - Project dashboard and management
 - Users can see what projects they've joined on the dashboard.
 - Users can review and approve applications for their project.
 - Users in a project can switch between management tools such as document editor and scrum manager.
 - Messages and Calling
 - Users can send messages to team members to better collaborate on their project
 - Users can call other team members
- Backend
 - Backend to handle account creation and login system
 - API system to create, fetch, and search Users
 - API system to create, fetch, and search Projects
 - API system to send and fetch Messages
 - API system to control management systems
- Database
 - User schema
 - Name
 - Skills
 - Programming languages
 - Frameworks
 - Other
 - Interests

- Project schema
 - Name
 - Description
 - Skills
 - Project management schema
 - Message schema
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- Platforms and frameworks
 - For the frontend we plan on using
 - NextJS
 - React
 - TailwindCSS
 - Backend
 - Firebase
 - Java
 - Go
 - Python