

17-356/17-766: Software Engineering for Startups

Homework 7: Final Project Proposal

Total 100 points

Due: April 2nd, midnight

This homework is to be done in final project teams.

Congratulations! Someone has invested in your project and expects you to show them an MVP by the end of the semester. You should use the knowledge and experience you gained during the semester to build the MVP (and satisfy your investors). This time, we will not set deadlines for you, but you will tell us what your plan is and we will monitor your progress. It is your job to manage your time and your team to reach your goals in time.

For this assignment, you should specify user stories that will be included in your MVP and you should come up with a plan/timeline to reach it. This plan should include how many sprints you plan to do, and what you should be achieving during those sprints, and when they should take place. You should also decide upon your tech stack; front-end frameworks, databases, CI, team communication tools, etc.

Deliverables:

A project proposal containing the following:

- A short intro/motivation for your startup and product (1-2 paragraphs)
- Set of prioritized user stories that will be included in your MVP. (Recall HW1).
 - You should have a project backlog in some online tool that your team members can use to collaborate with; e.g. Trello, Zenhub, Github Issues, Google Docs, etc. Include a PDF of this backlog with your proposal.
- A list of interfaces your product should contain, and wireframes for each.
- A list of what you will use in your tech stack; backend framework, front-end framework, database, GitHub repository. Agree upon and list your communication tools (e.g., Slack, etc), and development infrastructure (development environment, CI, code style/linting). Agree upon and list where you will deploy your application (e.g., Azure, Heroku, AWS, etc).
- Plan/timeline you anticipate to follow to build the MVP.
 - How many sprints will you do? What will you accomplish during each sprint? When will each sprint take place? (Schedule them.)
 - In this plan you should include how you plan to divide the workload among team members. **Keep in mind that we will evaluate you against your own timeline, so try to be realistic.**

Note: to evaluate your progress for the rest of this project, we will be scheduling regular in-person meetings to discuss your progress for the remainder of the semester. Keep this in mind.