

Project Proposal

CS320 Fall 2022

Company Name:

MicroGoo

Application Name:

MANGA Reader

Proposal (\geq 300 words):

This web application will be targeted towards those who are preparing for jobs at large tech companies such as Meta, Amazon, Netflix, Google, Amazon (i.e. MANGA), etc. Given that the job application process for these companies is streamlined, to an extent, the goal is help the users keep track of their progress and what they need to do next in order to raise their chances of getting hired. The main challenges that are present is our unfamiliarity with the creation of web applications. However, this is something that we plan to tackle as we go through the later stages of the project.

The web application will help the users prepare for the job application process by organizing the questions by well-known collections. So far, the collections include Blind75, Neetcode 150, Sean Prashad's LeetCode patterns, and Grind75. The main goal of the application is to help them keep track of the questions they solved and the progress they made towards finishing the collection of questions. Thus, the main feature would be to show the list of questions for each collection, organized by topic (e.g. Arrays, Stack, Binary Trees, etc.). Building on top of this main feature, the other features are as follows:

- A checkmark that the user can click on to mark it as "done"
- A hyperlink for each question that takes the user to the LeetCode page for that question
 - Leetcode.com is one of the most, if not the most, popular technical interview preparation website
- A tracker to show how many questions they have answered for that topic (e.g. Arrays, stacks, etc.)
- A tracker to show how many questions they have answered for that collection (e.g. Grind75, Blind75, etc.)
- A difficulty indicator, where the difficulty is defined by leetcode.com
- Multiple tabs to switch between the different collections
- Light/Dark mode for the website
- Tab for other resources. For example, important readings such as Cracking the Coding Interview
- Checklist of things to do for the job application process (e.g. Reaching out to recruiters, getting referrals, behavioral interview preparations, etc.)