

Architecture Document for Backend Division of MOOC Project

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1 Introduction

1.1 Problem

The problem that many programmers face is finding a project to collaborate on, in a way that doesn't leave them feeling intimidated by a lack of skill or inability to fully grasp the scope of a large, multi-person project.

1.2 Solution

To solve the aforementioned problem, we propose to introduce a web application to allow users to easily search for projects to collaborate on. The goal is to allow the user a friendly and quick way to find something to work on, with the skillset they already have. The point is to make it easier for new

programmers to gain experience working on larger projects, in a way that makes it easier both for project managers and the individual developers.

2 User Stories

Here, some common experiences users should expect are written, from their point of view. The purpose is to prepare the application in such a way that a user can interact with it in a natural way, without struggling with overly complex functionality and unintuitive design choices.

Due to the nature of this part of the project, specifically the back-end architecture, many of the stories will be rather abstract, and it is the responsibility of the developers to design the application so that it fulfills these requirements in an efficient and timely manner.

2.1 Critical User Stories

- As a user, I want to see all the projects I'm currently a part of.
- As a user, I want to be able to let the site know that I am skilled with certain technologies.
- As a user, I want to see projects that are relevant to the skills I have shared with the site.
- As a project manager, I want to be able to easily create a new project, and set a list of skills as a set of requirements to filter out the many unqualified applicants.
- As a project manager, I want a way to chat with the users in my project easily.
- As a project manager, I would like to chat with a potential member before they join the project, as an added layer of security/scrutiny.

3 Glossary

Throughout the architecture document, several key words or phrases are used, many specific to the scope of this project. As such, those terms are defined below.

1. *The Project* - The MOOC Project as a whole. It refers to the collective efforts of both the front- and back-end projects.

2. *User* - Someone who uses the project for its intended purpose; to find other users to collaborate with, or to host a project so that other users may join it.
3. *Project Manager* - A subset of users who have created their own projects.
4. *Project* - A digital representation of a software collaboration project, lead by a project manager, and a list of users who are members of the project.