

Next Big Idea Development



Company X is a conglomerate, which means they are made up of many different businesses. They have dipped their toes in creating all types of products and services, but are looking to *invest in their next big idea*.

You are tasked to come up with this new application that can be marketed by Company X. They don't mind any idea you come up with, but the application should be able to *maintain a set of users in some way*.

The final application should *showcase all the main functionalities you expect of your idea*.

While deciding on what type of product you will build, make sure you can answer the following questions:

1. What does the application do?
2. Who is the target audience for this application?
3. How is it useful?

Requirements

The Full-Stack Application you build must have:

- **Frontend Web Service**
 - Based on the front end framework learned in this course
 - Utilize the framework's built-in Router
 - Should consume the APIs you built
- Maintain a **set of users** that can login to whatever application you build
- **Backend Service using Spring Boot**
 - Must use JPA with a MySQL database (can also use MongoDB)
 - Include at least one Validation annotation
 - At least one custom query (using naming rules or @Query)
 - Have at least one custom exception and contain a Global Exception Handler
 - Set up testing with Mockito & JUnit for your APIs
 - Add in Swagger documentation
 - Set up security using JWTs

As well, you should also have:

- A **kanban board** created (can use free services like Jira)

Additionally, you could consider:

- **[OPTIONAL]** If you'd like, you can create a **Product Requirements Document** to outline your goals and expectations before you get started.
- **[OPTIONAL]** Create a **Presentation** in order to **showcase your project to a board of directors**. Feel free to include it in your GitHub repo.

Considerations when Developing a PRD

A product requirements document (PRD) is an artifact used in the product development process to communicate what capabilities must be included in a product release to the development and testing teams.

The PRD will contain everything that must be included in a release to be considered complete, serving as a guide for subsequent documents in the release process. While PRDs may hint at a potential implementation to illustrate a use case, they may not dictate a specific implementation.