

Lea**R**n

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Executive Summary

LeaRn is an interactive website created for people who are ambitious and want to increase productivity and knowledge in an entertaining way. It provides videos, quizzes, practice questions, and progress tracking. LeaRn promotes individuals to gain experience about topics they're interested in or find tough in their academic journeys. The website will be developed using primarily Java Spring for the back-end, and MySQL for data storage.

Project Scope and Timeline

Project Scope:

We are planning on implementing the following features:

- Login System
- Video-based content
- Quizzes and Practice Questions
- Leaderboard

Project Timeline:

- **Week 1-2:** Research and Planning
- **Week 3-5:** Back-end Development
- **Week 6-8:** Front-end Development

Key Features

- **Practice Questions:** Will be given as modules to prepare them for the quizzes.
- **Quizzes:** Test the level of progress after studying the material.
- **Login System:** Ensure our users' data is secure and private, and manage users and configurations.
- **AI Chat System:** A chat system to answer both questions about the topics learned.
- **Donation Link:** Anyone can donate to improve our website and others' academic journey.
- **Leaderboard:** Allows competition between individuals on common courses.
- **Academic Level Test:** When the user signs in, they will be tested in the specific course to see their level and get the resources accordingly.

User / Interaction scenario

A student creates an account on LeaRn. They choose their preferred course. Then, the student will go through an academic test to be placed in the right level. The student will watch videos, complete practice questions and the quiz, and their performance will be ranked on the leaderboard.

Implementation Details

- Front-end: Bootstrap, CSS
- Back-end: Java Spring
- Database: MySQL

Anticipated Challenges

- Developing all our features hand in hand when writing the code.
- We have major competitors, such as Khan Academy, Pearson, Chegg, etc. We need to come up with unique features that will make us stand out.
- Database integration.
- Leaderboard integration. This can be challenging, as having many users can make it harder to implement.
- Successfully place users in the right level according to their initial academic level test score.