

Senior Project Preliminary Schedule

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1. Plan Introduction

1.1 Introduction:

This preliminary schedule is intended to result in the creation of a viable build for the discussion board website by the end of the Fall 2024 semester. The build is intended to be ready for testing within a professional environment. The website will be a clean, user friendly focused resource for professors or other professionals looking to inspire discussions online within their immediate circles.

2. Project Deliverables

2.1 Deliverables and Due Dates:

Number	Deliverable	Due Date
#01	Project Proposal Presentation / Document	Week 3 09/02
#02	Requirements Specification, Initial Development Schedule	Week 5 09/25
#03	Software Development Plan Document [Complete]	Week 7 10/07
#04	Software Design Description Document [Architecture Section]	Week 10 10/28
#05	Software Design Description Document [Detailed Section]	Week 12 11/11
#06	Alpha/Beta/Critical Design Review Presentation/Demonstration	Week 12 11/11
#07	User's Manual Final Updates - belongs in README.md	Week 12 11/11
#08	FINAL Presentations	Week 15 12/02
#09	FINAL Product Delivery	Week 16 12/09

3. Hardware Resources

3.1 Developmental Machine:

The development machine initializes the project as well as integrates the backend infrastructure.

3.1.1 Laptop or Desktop Computer:

3.1.1.1 OS: Windows, macOS, Linux

3.1.1.2 Minimum Processor: Intel Core i5 or equivalent

3.1.1.3 Minimum Storage: 256 GB

3.1.1.4 Minimum RAM: 8 GB

3.2 Testing Machine:

The testing machine follows the same hardware specifications as the developmental machine(3.1).

3.1.1.1 Laptop or Desktop Computer:

3.1.1.2 OS: Windows, macOS, Linux

3.1.1.3 Minimum Processor: Intel Core i5 or equivalent

3.1.1.4 Minimum Storage: 256 GB

3.1.1.5 Minimum RAM: 8 GB

4. Software Resources

4.1 Text Editor / Integrated Development Environment

4.1.1 Visual Studio Code (VSCode) - Version 1.93

4.2 Front-End Development:

4.2.1 React.js - Version 19

4.2.1.1 Installation: Vite

4.2.2 Tailwind CSS - Version 3.3+

4.2.2.1 Installation: `npm install -D tailwindcss postcss autoprefixer`

4.3 Back-End Development:

4.3.1 Node.js - Version 18

4.3.1.1 Installation: Node.js official site

4.3.2 Fastify (Node Framework)

4.3.2.1 Installation: Fastify official site

4.3.3 PostgreSQL - Version 14+

4.3.3.1 Installation: PostgreSQL official site

5. Project Organization/Human Resources

5.1 Project Organization:

This project is a group project with five(5) total members. There are also designated roles for each of these members. These roles are as follows: project lead, fullstack developer, frontend developer, and backend developer. These roles are intended to be flexible and adapt as needed. Members and their assigned roles are as follows:

- Owen Sheow - Frontend developer, Project Lead
- Ian Comey - Fullstack developer
- Daniel Munoz - Frontend developer
- Callista Napitupulu - Backend developer
- Kevin Thomas - Backend developer

5.2 Human Resources and Management:

The project also has an attached professor to oversee progress and manage internal or external conflict:

- Professor B.J. Johnson, PhD

6. Schedule

The schedule can be found on the following spreadsheet:

6.1 GANTT Chart

-  Senior Project Schedule

7. Task/Resource Table

7.1 Task Allocation

- Complete Project Setup:
 - Assigned Members:
 - Full Stack Developers
 - Backend Developers
 - Frontend Developers
 - Hardware:
 - Developmental Machine
- UI Prototype:
 - Assigned Members:
 - Frontend Developers
 - Hardware:
 - Developmental Machine
- UI Complete:
 - Assigned Members:
 - Frontend Developers
 - Hardware:
 - Developmental Machine
- Discussion Board Complete:
 - Assigned Members:
 - Full Stack Developers
 - Backend Developers
 - Frontend Developers
 - Hardware:
 - Developmental Machine
- Live Chat Rooms Complete:
 - Assigned Members:
 - Full Stack Developers
 - Backend Developers
 - Frontend Developers
 - Hardware:
 - Developmental Machine
- Notes Upload:
 - Assigned Members:
 - Full Stack Developers
 - Backend Developers
 - Frontend Developers

- Hardware:
 - Developmental Machine
- Final Touch Ups:
 - Assigned Members:
 - Full Stack Developers
 - Backend Developers
 - Frontend Developers
 - Hardware:
 - Developmental Machine
 - Testing Machine