

Milestone 2: Build Module Architectures

The goal of this milestone is to build the module architectures for both the Frontend and Backend APIs of the application. One must perform the following in the documentation:

- 1) Update the Use Case Diagram with Visual Templates for Each Page
- 2) Separate Data Structures from Entities
- 3) Articulate Frontend Prime Components
- 4) Articulate Frontend Component Structure
- 5) Articulate Frontend Module Architecture
- 6) Articulate Backend API Router Structure
- 7) Articulate Backend Module Architecture

Section Specifications

Specifications for each relevant documentation section are as follows.

Use Cases

For each use case provide an image depicting the basic layout of each page the user will go through within the use case. Each page image should be created on a photo editing software, contain a caption of the user's interaction, and must be presented in order of iteration.

Data Structures & Entities

Separate Data Structures that will be observable in the application's frontend.

Frontend Prime Components

Make a glossary-style list of each frontend component not implemented within the application associated with a brief description of its appearance.

Frontend Component Architecture

Make a list of sections for each component with a brief description of its role, its contents, and components it may direct to.

Frontend Module Architecture

Make a textual tree-style list of frontend module packages, their modules, and components.

Backend API Router Structure

Make a list of sections for each backend API router with a brief description of its role and its API functions.

Backend Module Architecture

Make a textual tree-style list of backend router folders, their routers, and their APIs.

Placement of New Sections

The placement of new sections must be between the Non-Functional Requirements and the Technological Stack.

Note

Prior Revision (8/25/23)

Previously this milestone was assigned with the goal of deploying a vertical prototype of the application. However, this was revised due to the fact that creating a smaller application without an organized structure for the modules would amount to an unnecessary waste of time. Time would still be spent articulating the module structure later, thus it was deemed appropriate to accomplish this task first.