

Key Features for Sprint 1

Requirement 0: Determine Technology Stack

Feature Overview: Decide the primary technologies for frontend, backend, data, hosting, and tooling to ensure feasibility.

- Selection Process: compare multiple options per layer (frontend, backend, DB, etc.)
- Constraints and Criteria: Document requirements (performance, cost, licenses, familiarity)
- Testing Setup: Validate a simple unit test for each chosen layer.

Functionality:

- Tech stack decision conversation with final picks and rationales.
- Recorded unit tests for each layer.

Requirement 0.1: Initialize Code Base within GitHub

Feature Overview: Create a clean, secure collaborative repository foundation.

- Repository Creation: Private GitHub repo with working branches.
- Structure: Standard folders for code, assets, documents, etc.

Functionality:

- Repo link shared with branch protections active.
- Team can clone, branch, and open PRs.

Requirement 0.2: Establish dependencies being used

Feature Overview: Lock down third-party libraries, versions, and policies to ensure reproducible builds.

- Manifest Files: Create package manifests with pinned versions.
- Dependency Policy: Define allowed licenses

Functionality:

- Dependencies are installed cleanly on a new machine.
- Docs lists libs, versions, and purpose

Requirement 0.3: Design and describe project architecture

Feature Overview: Produce an architecture for system components and interactions.

- Diagrams: Create 3 UML diagrams (use case, class, sequence)
- Interfaces: Define APIs, data schemas, and service contracts.

Functionality:

- /docs includes the UML diagrams and architecture overview.

Requirement 0.4: Create a rough draft for the application UI

Feature Overview: Produce a basic UI that captures core flows and screens

- Scope: Identify main user flows (log in, entry screen)
- Sketches: Basic sketches with annotations

Functionality:

- Stored in repo for later reference.
- Feedback list with top changes prioritized.

Requirement 0.5: Finalize application name and synopsis

Feature Overview: Choose a memorable name and concise synopsis for the project.

- Shortlist and Vote: Finalize ideas and vote on final options.
- Synopsis: Tagline and value proposition.

Functionality:

- Final app name and synopsis approved and recorded in README.md