

Sprint 0 (Weeks 1-2)

- **Deliverables:** Prototype, user workflow document, refined backlog.
- **Focus:** Learning tools, setting up the development environment, and building a simple prototype.

Sprint 1 (Weeks 3-4)

- **Deliverables:** MVP enhancements (basic CRUD functionality, DNS Twist integration).
- **Focus:**
 - Add/remove domains in the frontend.
 - Backend processes multiple domains using DNS Twist.
 - Basic database integration.

Sprint 2 (Weeks 5-6)

- **Deliverables:** Full-stack integration.
- **Focus:**
 - Frontend connects to the backend.
 - Results are displayed dynamically.
 - Store fuzzing results in the database.

Sprint 3 (Weeks 7-8)

- **Deliverables:** Advanced features and optimizations.
- **Focus:**
 - Schedule recurring fuzz tests (e.g., daily).
 - Implement Pub/Sub messaging for results.
 - Docker Compose setup for multi-container deployment.

Sprint 4 (Weeks 9-10)

- **Deliverables:** Final product and presentation.
- **Focus:**
 - Add stretch features (e.g., user authentication, search/filtering).
 - Comprehensive testing and debugging.
 - Prepare for the final demo.

Sprint Zero Outline:

Objectives for Sprint Zero (First Two Weeks)

- Deliverables: **Minimum Viable Product (Prototype)** and **User Workflow Document**.

Tasks

1. Understand Requirements (1 Day)

- Clarify the expectations for the prototype and the user workflow document.
- Define what constitutes the "minimum viable product" (MVP). For example:
 - A frontend interface to add/remove domains.
 - A backend function that runs DNS Twist on one domain.
 - A database storing a basic domain list.

2. Create a User Workflow Document (2 Days)

- **Definition:** A user workflow document outlines how users interact with the application step-by-step.
 - Example:
 - **Step 1:** User adds a domain via the web interface.
 - **Step 2:** The backend schedules fuzz testing for the domain.
 - **Step 3:** Results are stored in the database and displayed to the user.
- Tool: Use diagrams or flowcharts (Lucidchart, draw.io).

3. Build the Prototype (8 Days)

- **Frontend:**
 - A simple interface with a form to input a domain name.
 - Display a placeholder for fuzz testing results.
- **Backend:**
 - Use DNS Twist to process a single hardcoded domain.
 - Output basic results (e.g., console logs or placeholder JSON).
- **Database:**
 - Create a basic schema for storing domain names and fuzz testing results.
- **Docker:**
 - Package the prototype backend as a container.

4. **Product Backlog Refinement (2 Days)**

- Break down features into user stories and tasks for Sprint One.
- Example backlog items:
 - Add/remove domains functionality.
 - Schedule recurring fuzz testing.
 - Implement a basic results page.

5. **Deliverables**

- A working prototype that demonstrates the MVP.
- A user workflow document.
- A refined backlog for Sprint One.