**1. Introduction**

**Project Title:** Discover the Mysteries of Oumuamua

**Description:** This project is a web application that provides information about Oumuamua, the first interstellar object detected passing through the Solar System. The application allows users to explore images and details about Oumuamua and add their own observations.

**2. Technical Documentation**

**2.1 Project Structure**

myproject/

├── src/

│ ├── main/

│ │ ├── java/

│ │ │ └── com/

│ │ │ └── example/

│ │ │ ├── OumuamuaObservationApplication.java

│ │ │ ├── OumuamuaObservation.java

│ │ │ ├── OumuamuaObservationRepository.java

│ │ │ └── OumuamuaObservationController.java

│ │ └── resources/

│ │ └── application.properties

├── public/

│ ├── index.html

│ ├── style.css

│ └── script.js

├── pom.xml

└── ...

**2.2 Flowchart**

Here's a simple flowchart illustrating the interaction between the AngularJS front-end, Spring Boot REST API, and H2 database:

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| AngularJS Frontend| <---> | Spring Boot REST | <---> | H2 Database |

| (index.html) | | API (Controller) | | |

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**2.3 Technical Details of Pages**

**index.html:**

* Displays the main content of the application, including images and descriptions of Oumuamua.
* Contains AngularJS bindings to display the welcome message and list of observations.
* Includes a form to add new observations.

**style.css:**

* Defines the styles for the application, including the black background, text color, and layout.

**script.js:**

* Contains the AngularJS controller that handles fetching the welcome message and observations from the backend.
* Manages the form submission to add new observations.

**Spring Boot Application:**

* OumuamuaObservationApplication.java: The main class that starts the Spring Boot application.
* OumuamuaObservation.java: The entity class representing an observation.
* OumuamuaObservationRepository.java: The repository interface for CRUD operations on observations.
* OumuamuaObservationController.java: The REST controller that handles HTTP requests for observations.

**application.properties:**

* Configures the H2 database and other application settings.

**3. User Documentation**

**3.1 Getting Started**

1. **Clone the Repository:**
2. git clone <repository-url>
3. cd myproject
4. **Build the Project:**
5. mvn clean install
6. **Run the Application:**
7. mvn spring-boot:run
8. **Open the Application:** Open a web browser and navigate to http://localhost:8080.

**3.2 Using the Application**

* **Explore Oumuamua:** The home page displays images and descriptions of Oumuamua. Users can learn about its journey through space and its mysterious origins.
* **View Observations:** Below the images, users can see a list of observations. Each observation includes a date and details.
* **Add Observations:** Users can add their own observations by filling out the form with the date and details, then clicking the "Add Observation" button. The new observation will appear in the list immediately.