Scope of Duties and Responsibilities

This project's scope was to implement front-end validation using angular reactive forms. The objectives were to:

* Design and develop pages using angular and typescript.
* Implement angular reactive forms with the right validation rules.
* Make sure the front-end and back-end work smoothly together to check data in real time.
* Improve user experience by preventing incorrect data entry.

### Validation Features Implemented

We implemented validation on multiple pages, ensuring:

* Required Field Validation: Users must complete necessary fields before submission.
* Pattern Matching: Enforcing input formats such as email.
* Min/Max Length Constraints: Restricting input length for security and usability.
* Async Validation: Real-time data verification with backend APIs.

## Project Timelines, Milestones, and Deadlines

### 1. Planning and Requirement Gathering (Month 1-2)

* Defined project scope, objectives, and validation requirements.
* Analyzed best practices for angular reactive forms and validation strategies.
* Established front-end to back-end communication protocols.

### 2. Designing the System (Month 3)

* Designed UI components for forms and validation feedback.
* Defined form structures, validation logic, and custom rules.
* Outlined API integration for real-time validation.

### 3. Implementation (Month 4)

* Developed and integrated angular reactive forms.
* Implemented various validation rules and patterns.
* Connected the front-end with the back-end for data validation.
* Debugged and refined validation processes.

### 4. Testing and Optimization (Month 5)

* Conducted unit testing for form validation logic.
* Performed integration testing to ensure smooth front-end to back-end communication.
* Addressed feedback for improved usability and performance.
* Ensured form validation accuracy under various test cases.

### 5. Deployment and Handover (Month 6)

* Finalized and deployed validated forms.
* Ensured seamless integration with the back-end system.

### Sprint 6

* Next team is required to take over and implement the dashboard.