**Project Document**

### ****Part a) Display Users and Show User Details in a Dialog****

1. Create an angular project and install angular material and bootstap.

**Create an Angular Service for User Service:**

* Service to handle HTTP calls to fetch and update user details.
* Use HttpClient for REST API integration.

**Create a User List Component:**

* Display a list of users retrieved from the backend.
* Each user row should be clickable.

**Create a User Details Dialog:**

* Use Angular Material's MatDialog for showing user details.
* Display all user details fetched from the backend.

### ****Part b) Update User Details****

1. Add form controls for editing firstName and lastName in the dialog.
2. Use the updateUser method in the service to send the updated data to the backend.
3. Refresh the user list after successful update.

### ****Part c) Architectural Considerations****

1 **Separation of Concerns (SOLID Principles):**

* **Single Responsibility Principle:** Keep UI logic in components, HTTP requests in services.
* **Open-Closed Principle:** Make components extendable without modifying existing code.
* **Liskov Substitution Principle:** Design the service methods to work regardless of the data source.
* **Interface Segregation Principle:** Use interfaces for data models to ensure flexibility.
* **Dependency Inversion Principle:** Inject services to decouple components.