Software Requirements Specification (SRS) for Contact List Management System

1. Introduction

1.1 Purpose

The purpose of this document is to provide a detailed specification for the Contact List Management System. This system will allow users to create, save, view, edit, and delete contact information. The contact data will be stored in the local storage of the user's browser.

1.2 Scope

The Contact List Management System will include functionalities for adding new contacts, displaying a list of contacts, editing existing contacts, and deleting contacts. The system will utilize Angular for the frontend and local storage for data persistence.

1.3 Definitions, Acronyms, and Abbreviations

Angular: A platform for building mobile and desktop web applications.

Local Storage: Web storage that allows storing data in the browser.

CRUD: Create, Read, Update, Delete.

2. Functional Requirements

2.1 Contact Object Properties

id: A unique identifier for the contact (number).

name: The name of the contact (string).

phone: The phone number of the contact (string).

email: The email address of the contact (string).

2.2 Functionalities

Create Contact: Ability to add a new contact with the fields: name, phone, and email.

Save to Local Storage: Contacts should be saved in the browser's local storage.

Show List of Contacts: Display all the contacts stored in local storage.

Edit Contact: Modify the details of an existing contact.

Delete Contact: Remove a contact from the list.

3. Non-Functional Requirements

3.1 Usability

The application should have an intuitive user interface for easy navigation and use.

3.2 Performance

The application should quickly respond to user actions.

3.3 Reliability

The data stored in local storage should persist even after the browser is closed and reopened.

3.4 Compatibility

The application should be compatible with modern web browsers.

4. System Design

4.1 Components

ContactsComponent:

Responsible for displaying the list of contacts.

A form for adding and editing contacts.

Handles the business logic, including CRUD operations with local storage.