**Customer Application Technical Specification**

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1. Introduction

1.1 Purpose

To create a functional customer management system.

1.2 Scope

The Scope of the project is as follows:-

* Get Customer
* Get CustomerById
* Create Customer
* Update Customer
* Delete Customer

1. System Architecture

**.Net Core Web API [STANDALONE]**

Get Customer

Get CustomerById

Create Customer

Update Customer

Delete Customer

**Angular JS**

View Customer Table Page

Create Customer Page

Api

**InMemory Database**

-Data Storage

1. Functional Requirements Specification

This sections outlines the functional usage of the system.

* 1. Create Customer
     1. Explanation

User can create a user by input **First** **Name, Last Name, Contact No, Address** and **Email** as the primary key identifier.

* 1. Get Customer By Id
     1. Explanation

User can query the Customer information by input **Email**. A full Customer details will be present with the **First** **Name, Last Name, Contact No, Address** and **Email**.

* 1. Get Customer
     1. Explanation

User can retrieve a list of Customers with **First** **Name, Last Name, Contact No, Address** and **Email**.

* 1. Delete Customer
     1. Explanation

User can delete customer by providing the **Email** input. The input email will be check if exist and proceed to remove.

* 1. Update Customer
     1. Explanation

User can update the customer by inputing **First** **Name, Last Name, Contact No, Address** and **Email**. Email will be used to edit the customer details while accepting **First** **Name, Last Name, Contact No, Address** as input.

1. Database Snapshot
   1. Database Information
      1. The current project is using Entitfy Framework Core In Memory Database where Entity framework is used to for the database transactions.

User can delete customer by providing the **Email** input. The input email will be check if exist and proceed to remove.

1. Angular Application
   1. First time Setup
      1. Please run this commands to start the angular customer application

|  |  |
| --- | --- |
| Commands | Usage |
| Npm install | To install the node modules and other dependencies |
| Ng Serve | Start the angular application (default port: http://localhost:4200/) |

* 1. Angular Pages
     1. Customer Table Page
        1. Application displays the **First** **Name, Last Name, Contact No, Email** of all Users

A screenshot of a computer

Description automatically generated

* + 1. Customer Edit/Add Page
       1. Application displays the **First** **Name, Last Name, Contact No, Email and Address** of all Users (Edit Mode)

A screenshot of a computer

Description automatically generated

* + - 1. Application displays the an empty form of **First** **Name, Last Name, Contact No, Email and Address** (Add Mode) A screenshot of a computer

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