1. **1. INTRODUCTION**
   1. **1.1 Purpose**

The purpose of this Software Design Document is providing the details of project titled as “Integrating Digital Queue Line Order Screens into Phone Application Express”.

The target audience is restaurants and café. We aim to minimize the loss of time in restaurants and it enables us to reduce the number of people with whom the customer communicates to almost zero, e.g., waiters.

The purpose of Express project is to reduce the time needed for giving an order from queue to restaurants and eliminating any possible health risks which can spread by interaction with people and restaurant menus which like COVID-19, Influenza, Sars etc. Technology of QR will be allow us to reach that goal by simply scanning QR code on the designated areas such as restaurant tables or anywhere close to the restaurant which user wants to order from. It will also help to restaurant side as reducing time for taking orders and reducing resources by using menus etc.

**1.2 Scope**

The Software Design Descriptions will include the general description and features of the project design constraints overall system and data architecture and describes the detailed structure of the components. The Express is an application that aims to minimize the loss of time in restaurants. Express will be accessible as a website which will make it usable from any device that has consistent network connection.

**2. Design Considerations**

## 2.1 Application Design Approach

### 2.1.1 Class Diagram

## Diagram Description automatically generated

### 2.2.2 View and Edit the profile

Users will be able to set their profile pictures, names, dishes they like, from their profiles. Users will be able to set their profile pictures, names of dishes they like from their profiles. They will be able to add a secondary email address. So they can recover their accounts even if they forget the email they signed up for.

After users log in to their accounts, they can see the food their friends ate or the restaurants their friends have gone.

### 2.2.3 Make Reservation

After users log in to the system, they can make a reservation from the restaurant. They can choose the time and food they want. If they think they can't reach the meal time, they can delay the meal time.

With the application we made to make a reservation from the restaurant, you can access the restaurant's menu by scanning the qr code.

In order for them to make a reservation, they should select empty a table and the food they want to eat should be in the restaurant. If these conditions are met, they can make a reservation.

### 2.2.4 Cancel Reservation

If users want to cancel their reservation, they must cancel their reservations at least half an hour in advance, otherwise no refund will be made.

Users can easily cancel their reservations from the menu in our application.

### 2.2.5 Admin Add, Delete, Update Library

The admin user has the authority to add and delete users and add and delete restaurants. It can use this authority when a member complains or acts improperly.

* 1. **1.3 Glossary**

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| SDD | Software Design Description |
| SRS | Software Requirements Specification |
| Customers | Customers who want to eat something |
| Admin | Admin who confirming orders |
| QR | QR code for to look menu |

* 1. **1.4 Overview of Document**

The remaining chapters and their contents are listed below. The remaining segments is the architectural design which explains the development phase and follows as necessary software and hardware architectures and interfaces.