**OneSecond**

**Table reservation and food ordering**

**Mobile Application**

**For restaurant chain**

**Brief Description**

OneSecond is a mobile application designed for restaurant chain that revolutionize the way dine by removing all hassles of enjoying a restaurant dine. This streamlines the process end to end from finding a nearby restaurant to payment procedure at the end of the meal, all the processes in between such as booking a table, selecting the menu, checking the bill before placing an order and finally pay for the order can be accomplish through this app.

**Intended Users**

**Super Admin**: Super admin has all right to add new stores and managing admin users and food categories.

**Admin Users**: Admin users have all rights to managing food categories, foods displaying in android app. Furthermore, they will be able to manage all orders and respective customers.

**Customer users**: Customers can register, login, find restaurant nearby, book table and order foods.

**Functionalities**

1. **Super Admin Functionalities:**

* Login / Logout for Super Admin
* **Manage admin users**
  + Adding new store (Add Geo coordinates, create username and password)
  + Edit details
* **Manage Food Category**
  + Adding new food category
  + Edit/delete existing food category
  + View details of the food categories
* **Manage Foods**
  + Adding new foods
  + Edit the existing foods
  + View details of the foods
* **Dashboard and Generating Reports (Future work)**

1. **Admin User Functionalities:**

* Login / Logout for Admin (Password / Fingerprint/ Face id)
* Manage food categories and foods (enable or disable food categories added by super admin
* Manage Tables
* Manage orders
  + See list of all orders
  + Update status of orders (With the remaining time)
* **Dashboard and Generating Reports (Future work)**

1. **Customer User Functionalities**

* Login / Logout for customer (Password / Fingerprint/ Face id)
* Customer registration (Name, email, photo, mobile number) (When opening the app ask them give permission to use location access, fingerprint, face id) (Take the profile using camera or using gallery)
* Customer can select the nearest store (Can see nearest stores in google map and respective distance from your current location)
* Customer can select available table (drop down or scan QR code on the table)
* Customer can search the list of foods
* All available food categories in selected store
* Customer can see the food details with images
* Customer can add/ delete foods from the cart with quantity
* Customer can pay online using their credit/ debit card (Not decided yet)
* Customer can see his order status
* Customer can see his order history

**Mobile device features**

1. Location device services
2. Camera
3. Fingerprint

**Data Persistence**

I will be using firebase for the data storing and management services and a cache will be saved locally in firebase for network issues.

**Data Retrieval**

User inputs are the main method of data retrieval method

**Security**

**Permissions**

1. Camera
2. Location
3. Gallery

**Tools**

**Agile Methodology**

Among agile mythologies, one of the most popular method, Kanban development methodology, which uses visual methods for developing and managing projects was chosen. Work items are represented visually on a Kanban board, allowing me to see the state of every piece of work at any time. I have chosen Trello platform for Kanban and then I can easily configure the board to match my process.

Android Studio 3.5.x with Android SDK API level 29, although we will target our apps at Android version 5.0 (API level 21) to increase app compatibility with existing devices.