# Functional and Non – Functional Requirements

**1.**      **User Account Registration**

1.1   User must register with an email not already in the database

1.2   User must register with a username not already in the database

1.3   User must register with a password of at least 8 characters long

1.4   System validates that all fields are entered correctly

1.5   System validates that there are no conflicts with the database

1.5.1        System shows an invalid prompt if there are conflicts

1.5.2        System requests user to address conflicts

1.6   Account System must record new account in database

**2.**      **User Account Login**

2.1   User must login with username and password

2.2   System validates that all fields are entered correctly

2.3   System validates that information entered matches with database

2.4   System redirects user to the main page after successful validation

2.5   If username entered is not in database, system will inform user that the username inputted was incorrect

2.6   If the username entered is in the database but the password entered is wrong, System will inform User of the error.

2.6.1        User is allowed a total of five tries to input the correct password

**3.**       **Account Recovery**

3.1   System sends an email verification associated with that username after the fifth failed attempt to reset the User’s password

3.1.1        E-mail verification link expires 5 minutes after e-mail was sent

3.2   Users are able to reset their password by clicking on “Forgot your password?” button on login screen

3.2.1        System sends an email to the user to allow them to reset their password

3.2.2        E-mail verification link expires 5 minutes after e-mail was sent

3.3   Account System must be able to change user’s password in database

**4.**      **Location Service**

4.1   System must be able to gather the User’s location through their device’s location function

4.2   System must allow User to input their location manually

**5.   Home Page**

5.1 User must be able to navigate to the find nearest restaurants page.

**6.**    **Map**

6.1   System must display a map, centred on the location the User has entered/provided by the location service

6.1.1        Map shows area around User in 3 kilometre radius

6.2   User must be able to scroll through the map

6.3   User must be able to zoom in and out of the map

6.4   User must be able to see their previous reviews

6.5   User must be able to navigate to settings

**7.**      **View User’s Reviews**

7.1   System must display all reviews made by User

7.2   System must allow User to edit review made by User

7.3   System must allow User to delete review made by User

**8.**      **Review Making**

8.1   User must be able to write reviews for restaurants

8.1.1        Reviews are limited to 300 characters long

8.2   User must be able to add ratings to restaurants

8.2.1        Ratings are on a scale from 1 to 5

8.3   User must be able to edit reviews

8.4   User must be able to edit ratings

**9.**       **Settings Menu**

9.1   User must enter their password to enter the settings menu

9.1.1        System will inform User if password inputted is incorrect

9.2   User must be able to change their password

9.2.1        User must input their current password correctly to change their password

9.2.1.1   New password must be at least 8 characters long

9.2.1.2   System will inform the user if password inputted does not meet requirements

9.2.2        System will send an email to User’s email, informing them of their password change

9.3   User must be able to change their email

9.3.1        System will send an email to User’s new email to confirm the change

**10.**       **View Nearby Restaurants**

10.1   System must be able to retrieve restaurant information from database provided

10.2   System must be able to display restaurants in a 3 kilometre radius from the location specified by User

10.2.1        The displayed restaurants must show their cuisine type, proximity and ratings

10.3   User must be able to input a restaurants name manually to view its information

10.4   The restaurants should be displayed on the map overlay

10.5   System must be able to filter the restaurants to display

10.5.1        The filters are “cuisine” , “proximity” or “rating”

10.5.2        Proximity must range from 0.5 kilometre to 5 kilometre

10.6   System must be able to display a random restaurant in a 3 kilometre radius if the User selects the “random” button

10.6.1        The random button takes in to account any filters applied on the System by the User

10.7  System must display the map as specified in section 5

**11.   User Profile Page**

11.1 User must be able to view information about his profile

11.2 User must be able to navigate to view user’s reviews page (section 6)

**10.**    **View Specific Restaurants**

10.1                   User must be able to select a restaurant to view more information

10.1.1 Information such as cuisine type, distance, rating and opening hours must be displayed

10.2                   User must be able to read reviews left by other users

10.3                   User must be able to add reviews to the restaurant

10.4                   User must be able to add ratings to the restaurant

10.4.1 Ratings are on a scale from 1 to 5

**11.**     **View Nearby Parking**

11.1                   System must show available parking spaces that are at most 1 kilometre away from the restaurant

11.1.1 System must have a filter to lower search radius up to 0.5 kilometres

11.2                   User must be able to select a specific parking space from those displayed to navigate to.

11.3                   System must display the number of available lots and total number of lots at parking space specified

**12.**     **Pathfinding**

12.1                   User must be able to select “Get directions” at either the “Specific Restaurant” page or “View Nearby Parking” page

12.1.1 System must redirect User to Google Maps, inputting the location for the User

**13. Frequently Asked Questions (FAQ)**

13.1 System must be able to display frequently asked questions

**14.**     **Non-functional Requirements**

14.1                   The system must be able to support up to 100 concurrent users

14.2                   The system must take up to 3 seconds to load under normal network conditions

14.3                   The system must be supported by the common web-browsers used

14.4                   The system must scale according to the screen size of the device used by the User

14.5                   The database must support standard SQL/MySQL queries