Software Requirements Specification

for

*Foodies web app*

**Version** *1.3*

**Prepared by**

*-Monica Atef -Marina Hatem*

*-Hagar Hany -Hagar Nasser*

*-Noura Amr*

**ITI Smart Village**

**12-4-2022**

**Table of Contents**

**Table of Contents ii**

**Revision History ii**

**1.** **Introduction 1**

1.1 Purpose 1

1.2 Document Conventions 1

1.3 Intended Audience and Reading Suggestions 1

1.4 Project Scope 1

1.5 References 1

**2.** **Overall Description 2**

2.1 Product Perspective 2

2.2 Product Features 2

2.3 Operating Environment 2

2.4 Design and Implementation Constraints 2

2.5 User Documentation 2

2.6 Assumptions and Dependencies 2

**3.** **System Features [Functional Requirements] 3**

3.1 System Feature 1 3

3.2 System Feature 2 (and so on) 3

**4.** **External Interface Requirements 3**

**5.** **Nonfunctional Requirements 4**

5.1 Performance Requirements 4

5.2 Safety Requirements 4

5.3 Security Requirements 4

5.4 Software Quality Attributes 4

**6.** **Other Requirements 4**

**Appendix A: Glossary 4**

**Appendix B: Analysis Models 5**

**Appendix C: Issues List 5**

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **version** |
| Marina | 22/4 | First version | 1.0 |
| Noura | 29/4 | Modify features of user and admin | 1.0 |
| Noura & Marina | 6/5 | fix Amr comments and added “sign out” functionality. | 1.1 |
| Noura | 9/5 | edit srs according to wirefram | 1.2 |
| Marina | 10/5 | Continued some html form validation in admin pages | 1.2 |
| Marina | 12/5 | Updated SRS in add admin, add user and register according to the front end validations | 1.2 |
| Noura | 13/5 | edit add offer feature | 1.2 |
| Noura | 13/5 |  | 1.2 |
| Hager Hany | 20/5 | Due to customer Requirements | 1.3 |

# Introduction

## Purpose

*Foodies is a web app that will provide a good source of the nearby restaurants so the users can discover and order their food .Also the restaurant owner can promote their menus and different services.*

## Document Conventions

*We using a template without change the font or headers ,tailoring the content based on type of project*

## Intended Audience and Reading Suggestions

*Intended Audience :developers, project managers, marketing staff, users, testers, and documentation writers. This SRS contains Product Scope, User Needs, Assumptions and Dependencies, Functional & nonfunctional Requirements, and System Features.*

*sequence for reading the document:*

*Purpose and project scope*

* *Project functionality (what should be done and what should not be done)*
* *System performance criteria.*
* *Implementation issues (risks) if any.*

## Project Scope

*The Scope of the project is as follows:-*

* *To build a system that the user can register for getting the nearby restaurant*
* *After choosing the restaurant, the user can select items and set an order.*
* *Users can get offers and promotions based on frequency of using the app.*

## References

*N/A*

# Overall Description

## Product Perspective

*It is Web based application that facilitate for user to access near by restaurant’s menus and make the order of food easier  
help the restaurants owner reach more users.*

## Product Features

**User’s features**

* *Users create their accounts using the registration form fields [Email, Password, User ID, Phone Number, and Location].*
* *Users will be redirected to the home screen with all nearby restaurants after registering successfully.*
* *Users can search for specific restaurants.*
* *Users can select items and set an order*
* *Users can get offers and promos from nearby restaurants*

**Admin features**

* *ADD/DELETE/UPDATE users, restaurants, menus.*
* *Admin determines promotions and offers based on more user using the app*
* *add another admin*

## Operating Environment

* *Operating system: Windows.*
* *database: file-based*
* *platform: html ,css, java script*

## Design and Implementation Constraints

* Web-based system/pc based
* Unique user-id
* Admin features needed

## User Documentation

*Firstly, users can register with Email, Password, User ID, Phone Number, and Location.*

*After this will be redirected to the home page where he can see all nearby restaurants by the entered location and can search on specific restaurant.*

*Then, after selecting, the restaurant he can show the menu items and set an order.*

*Cash on Delivery is the only payment method.*

*Users can get offers and promotion based on frequency of using the app.*

## Assumptions and Dependencies

***Assumptions***

* *Login page*

*Tracking order*

***Dependencies***

*Features of admin – features of users*

***Features of users:***

***(start-start)***

*Feature Select item/restaurant – Feature register*

***Features of admin:***

***(start-start)***

*Features promotion – Features menu – Add another admin*

### System Features [Functional Requirements]

Foodies web app contains two types of users: admin and normal user.  
The following are the functionalities :

1. **USERS FUNCTIONALITIES :**

***General Table of Normal User features***

|  |  |
| --- | --- |
| ***General* Description** | In “foodies App”, we have two characters admin and normal users. |
| **User Functionalities** | -Register an Account.  -Sign In.  -Select a Restaurant.  -Select meals.  -Confirm order.  -Navigate to the “Offers and Promotions” page.  -Select an offer/Promotion to apply. |

## Register an Account

|  |  |  |
| --- | --- | --- |
| ID | Description | Priority |
| F\_REQ\_U\_Reg\_3.1.1 | In “foodies App”, the user can **register** in our app to get a fixed list of restaurants and make an order.  When he navigates to the web app he will be navigated to the Register page.  The user will be required to fill the following fields in order to register an account:  -Full Name  -user name  -User mail  -Password  -Confirm Password  -Address  -Phone Number  After that he will have to click on “Register” Button. | HIGH |
| F\_REQ\_U\_Reg\_3.1.2 | The fields must match the following criteria:  1- the **full name** must contain characters.  In case of invalid full name, an error message will appear that “Please enter characters only”  2- the **username** must contain characters and numbers, in case of invalid username, an error message will appear that “Please enter characters and numbers only”  Also the user name must be unique incase if it is not unique a pop up message will appear "username already taken"  3-the **email** in the valid email format.  in case of invalid email an error message will appear that “Please enter a valid email”.  4- the **password** at least 8 characters and contain letters/numbers/special characters  in case of invalid password an error message will appear “Use minimum 8 characters with a mix of letters, numbers & symbols Pattern.”  5-the **confirmation password** must match password  if confirmation password didn’t match the password  an error message will appear “Passwords do not match”  6-**Address** contain characters and numbers only  in case of invalid address, an error message will appear that “No special characters allowed”  7-**Phone Number** must contain 11 numbers only and start with 01.  in case of invalid Phone Number, an error message will appear saying “Please enter a valid phone number in 11 digits starting with 01”  All fields are required so if any field is left empty an error message saying “This field is required” will appear.  If all the fields meet the constraints a pop up message will appear "account created successfully "then the user will be navigated to the Login page to enter his username and password to be able to view the home page.  If the user already has an account, under the register button he will find a line saying “Have an account? Login here”. The ‘Login here’ will be clickable to navigate the user to the sign in page. | HIGH |

## Sign In

|  |  |  |
| --- | --- | --- |
| ID | Description | Priority |
| F\_REQ\_U\_sig\_3.2.1 | If the user already has an account, he will click on the “Login here” button in the Register page. |  |
| F\_REQ\_U\_sig\_3.2.2 | The user will be required to fill the following fields in order to sign in to his pre-registered account:  -user name  -Password  And then click on the “ **login**” Button. | HIGH |
| F\_REQ\_U\_sig\_3.2.3 | The fields must match the following criteria:  1- The **user name** field mustmatch the usernames in the database file.  in case of invalid username, an error message will appear saying that “**Invalid** **username or password**”  2- The **password** field mustmatch the password of the username in the database file.  in case of invalid password, an error message will appear saying that “**Invalid** **username or password**”  In case the user enters a **valid username and password that match** then the user will be navigated to the home page that has a fixed list of restaurants.  Under the “sign in” button there will be “Not a member? Sign up”. The ‘Sign up’ will be clickable to navigate the user to the Register page. | HIGH |

## Select a restaurant

|  |  |  |
| --- | --- | --- |
| ID | Description | Priority |
| F\_REQ\_U\_sel\_3.4.1 | In “foodies App”, first the user has to sign into his pre-registered account in order to be able to use this functionality. | *High* |
| F\_REQ\_U\_sel\_3.4.2 | After the user signs in successfully he will be navigated to the home page that has a fixed list of restaurants, the user will be able to select a restaurant and only one restaurant by clicking on the restaurant icon.  The restaurant shall show the list of meals it has after clicking on it successfully by the user. | *High* |

## Select meals

|  |  |  |
| --- | --- | --- |
| ID | Description | Priority |
| F\_REQ\_U\_meal\_3.5.1 | In “foodies App”, first the user has to sign into his pre-registered account. | *High* |
| F\_REQ\_U\_meal\_3.5.2 | The user must select a specific restaurant. | *High* |
| F\_REQ\_U\_meal\_3.5.3 | The user can order from one and only one restaurant.  The user will be able to select from the menu the one available meal.  By writing the quantity needed of the required meal  The menu item can not be less than 0   the quantity field must be only integers. | *High* |

## Confirm order

|  |  |  |
| --- | --- | --- |
| ID | Description | Priority |
| F\_REQ\_U\_conf\_3.6.1 | In “foodies App”, first the user has to sign into his pre-registered account. | *High* |
| F\_REQ\_U\_conf\_3.6.2 | The user must select a specific restaurant. | *High* |
| F\_REQ\_U\_conf\_3.6.3 | The user must select the meals from the restaurant. | *High* |
| F\_REQ\_U\_conf\_3.6.4 | After the user has selected the desired meal items, he will click on the “Confirm Order” button at the end of the page.  If there are items selected:  The user will be navigated to another page that has a summary of the order. There will be two buttons: “Confirm” and “Cancel”.  If the user is sure of his order he will click on the “Confirm” button and a pop-up message appears saying “Order Confirmed and X points are added”.  The “X” represents the number of loyalty points he gained by ordering those meals.  If the user is not sure of his order he will click on the “Cancel” button and he will be navigated back to the menu page.  If there are NO items selected:  If the user clicks on the “Confirm Order” button while all the counters equal to zero a pop up message will appear saying “No meals have been selected” and stay in the menu page. | *High* |

## View Offers and Promotions

|  |  |  |
| --- | --- | --- |
| ID | Description | Priority |
| F\_REQ\_U\_offer\_3.7.1 | In “foodies App”, first the user has to sign into his pre-registered account. | *High* |
| F\_REQ\_U\_offer\_3.7.2 | The user can navigate to the “Offers and Promotions” page by clicking on “Offers” tab on the nav bar.  This page will contain two parts:  1-Offers from restaurants:  Restaurants can add discount offers with amounts (ex: 50 LE OFF,  25 LE OFF.. etc).  2-Loyalty points:  Gained by ordering.  Any item you order you get points by this equation:  Points = Price/4 | *Low* |

## Select an offer/Promotion to apply

|  |  |  |
| --- | --- | --- |
| ID | Description | Priority |
| F\_REQ\_U\_SelOffer\_3.8.1 | In “foodies App”, first the user has to sign into his pre-registered account. | *HIgh* |
| F\_REQ\_U\_SelOffer\_3.8.2 | The user will navigate to the “Offers and promotions” page. | *Low* |
| F\_REQ\_U\_SelOffer\_3.8.3 | The user will be able to choose if he wants to use offers or his loyalty points to decrease the total price of his order.  1-Offers from restaurants:  Beside any restaurant offer there will be a “Use” button.  If the user clicks on this button he will be redirected to the page of the menu of this specific restaurant and will find the discount on the total price in the order summary.  The user can use only one offer.  2-Loyalty points:  If the user wants to get a discount from his loyalty points he will click on “Use my loyalty points” button. After that he will be redirected to the homepage that contains all the restaurants,  And before confirming any order the user will see that a discount is applied on the order total by this equation:  Total price = items price - loyalty points  The user can either use an offer from a restaurant or use his loyalty points; he can not do both. | *Low* |

**B) ADMIN FUNCTIONALITIES**

***General Table of Amin features***

|  |  |
| --- | --- |
| ***General* Description** | In “foodies App”, we have two characters admin and normal users. |
| **Admin Functionality** | -Add Restaurant  -Add Menu item  -Add offer |

## 3.10 Add *Restaurant*

|  |  |  |
| --- | --- | --- |
| ID | Description | Priority |
| F\_REQ\_A\_AddRest\_3.10.1 | .**Add Restaurant**  the admin can add a Restaurant by filling the following field: - Restaurant Name  - upload Restaurant logo and then click the “Add” button | HIGH |
| F\_REQ\_A\_AddRest\_3.10.2 | The fields must match the following criteria:  1- the **Restaurant Name** must contain characters only except for space  in case of invalid Restaurant Name, an error message will appear that ”Restaurant Name must be characters only”  2- **Restaurant logo** field must contains only files with the following extension -JPG -JPEG -PNG  in case of invalid Restaurant logo, an error message will appear that ”Restaurant logo must be JPG ,JPEG or PNG extension ”  in case **valid** data redirected to Add menu item page |  |

## 3.11 Add *menu item*

|  |  |  |
| --- | --- | --- |
| ID | Description | Priority |
| F\_REQ\_A\_AddMenu\_3.11.1 | **Add *menu item***  an admin can add a **menu item** by clicking “Add Menu item” button which will direct it to restaurants list and select specific restaurant | HIGH |
| F\_REQ\_A\_AddMenu\_3.11.2 | Admin can add menu item by **entering** theitem **name**, menu item **image** and enter the **price** then click the “Add” button |  |
| F\_REQ\_A\_AddMenu\_3.11.3 | -**item name** must be characters only  - **menu item image** field must contains only files with the following extension -JPG -JPEG -PNG  in case of invalid menu image ,an error message will appear that ”menu item image must be JPG ,JPEG or PNG extension ”  -**item** **price** must contains only integers and cannot be zero or less.  in case valid data a pop up must appear saying “Add Successfully” |  |

## 3.12 Add Offers

|  |  |  |
| --- | --- | --- |
| ID | Description | Priority |
| F\_REQ\_A\_AddOffer\_3.12.1 | **Add Offers**  an admin can add a promotion to a Restaurant by clicking “Add offer” button which will direct it to restaurants list and select specific restaurant | Medium |
| F\_REQ\_A\_AddOffer\_3.12.2 | Admin can Start entering the offer info by the following fields : -offer Code  - discount amount  then click “Add” |  |
| F\_REQ\_A\_AddOffer\_3.12.3 | The fields must match the following criteria:  1- the **Offer Code** must contain characters  in case of invalid offer Code, an error message will appear that ” Numbers only, please.” and must be unique  2-the  **Discount Amount** contains numbers only  in case of invalid offer Discount amount, an error message will appear” Numbers only, please.”  in case **valid** data, he will be navigated back to the admin home page. |  |

### 4. External Interface Requirements

## User Interface

*Supported Web Browsers: Chrome, Firefox and Microsoft Edge.*

## Hardware Interfaces

*N/A*

## Software Interfaces

*Database Management System: File Based.*

# Nonfunctional Requirements

## Performance Requirements

*The website’s load time should not be more than 2 seconds to respond*

## Safety Requirements

*N/A*

## Security Requirements

*-Authentication of the user and privacy of his order history is achieved by the “login Page”.*

*Resolving forgotten passwords are not handled in the project’s scope.*

*-Authorization of admin to Update/Delete/Add users, admins, restaurants,menus and promotions.*

*No one aside from the admin is allowed to have those privileges.*

## Software Quality Attributes

**Usability:** *Ease of use and user-friendly Interface the user can find it easy to deal with, having the same experience as other ordering websites.*

**Availability**: *users can search on nearby restaurant on website throughout the week at any time during the day. In the case of unplanned system downtime, all features will be available again after one working day.*

**Reliability**: *customers can access their accounts 98% of the time without failure.*

# Other Requirements

*N/A*