**Foodies Web App Project**

**Software Requirements Specification**

**Introduction**

Foodies is a web application designed to provide users with access to nearby restaurants, enabling them to discover, explore menus, and place orders conveniently. Additionally, admins can utilize the platform to promote the menus and services. This document outlines the functional and non-functional requirements, constraints, and stakeholders associated with the development and deployment of the Foodies Web App, considering the clarified customer inquiries.

**Specific Requirements**

The Foodies Web App will have 2 roles

1. User
2. Admin

|  |  |
| --- | --- |
| User | Admin |
| Login and Logout | **Login and logout** |
| Place Order | **Delete and create users** |
| Search for Restaurants | **Edit menus and promotions and remove restaurants** |

**Features**

**1.** **User:**

• Users must create an account using a valid email and a password with at least 8 characters.

**2.** **Restaurant Discovery:**

• Upon login, users are directed to the home screen displaying nearby restaurants within a 30 km radius.

• A search feature allows users to find specific restaurants by name and select them for ordering.

**3.** **Offers and Promotions:**

• The app should showcase promotional offers from nearby restaurants.

• Users should have access to a dedicated screen displaying current promotions.

**4.** **Loyalty Program:**

• Implement a credit-based system rewarding users with loyalty points for app usage.

• 1000 points in the credit-based system equal a £50 discount.

**Constraints**

• **Web-based System / PC-based:** The application must be accessible via web browsers or desktop computers.

• **Unique User ID:** Each user account must have a unique identifier, which is email is the unique User Id

• **Admin Features Needed:** Administrative functionalities include managing user accounts (create and delete) and editing menus and promotions.

**SRS\_UserSignUp\_01:**

* SRS\_UserSignUp\_01 Email: Must Be unique (doesn’t already exist in database), Follow naming convention(ahmed.mohamed@gmail.com)
* SRS\_UserSignUp\_02 Email: Not Be blank
* SRS\_UserSignUp\_03 Password: At least 8 characters
* SRS\_UserSignUp\_04 Password: Not be blank
* SRS\_UserSignUp\_05 Confirm Password: Not be blank
* SRS\_UserSignUp\_06 Confirm Password: must be equal to password
* SRS\_UserSignUp\_07 Phone Number: Not be blank
* SRS\_UserSignUp\_08 Phone Number: Valid mobile number(start with 01 then 9 digits)
* SRS\_UserSignUp\_09 when user enter a valid email (according to SRS\_UserSignUp\_01, SRS\_UserSignUp\_02)& a valid password (according to SRS\_UserSignUp\_03, SRS\_UserSignUp\_04) & a valid confirm password (according to SRS\_UserSignUp\_05, SRS\_UserSignUp\_06) & a valid mobile number ( according to SRS\_UserSignUp\_07, SRS\_UserSignUp\_08 ), he must see a displayed message “ you signed up successfully ”& navigated to home page of website
* SRS\_UserSignUp\_10 when user enter an invalid email(email already exist in database or user doesn’t enter any email) & a valid password (according to SRS\_UserSignUp\_03, SRS\_UserSignUp\_04) & a valid confirm password (according to SRS\_UserSignUp\_05, SRS\_UserSignUp\_06) & a valid mobile number ( according to SRS\_UserSignUp\_07, SRS\_UserSignUp\_08 ), he must see a displayed message “please enter a valid email”.
* SRS\_UserSignUp\_11 when user enter a valid email (according to SRS\_UserSignUp\_01, SRS\_UserSignUp\_02)& invalid password(more or less than 8 character or doesn’t enter any password) & a valid mobile number ( according to SRS\_UserSignUp\_07, SRS\_UserSignUp\_08 ), he must see a displayed message “please enter a valid password”.
* SRS\_UserSignUp\_12 when user enter a valid email (according to SRS\_UserSignUp\_01, SRS\_UserSignUp\_02)& a valid password (according to SRS\_UserSignUp\_03, SRS\_UserSignUp\_04) & a invalid confirm password(not same as password or doesn’t enter field of confirm password) & a valid mobile number ( according to SRS\_UserSignUp\_07, SRS\_UserSignUp\_08 ) , he must see displayed message “please enter a valid Confirm password”.
* SRS\_UserSignUp\_13 when user enter a valid email (according to SRS\_UserSignUp\_01, SRS\_UserSignUp\_02)& a valid password (according to SRS\_UserSignUp\_03, SRS\_UserSignUp\_04) & a valid confirm password (according to SRS\_UserSignUp\_05, SRS\_UserSignUp\_06) & invalid mobile number(more than 11 digit or didn’t start with 01 or doesn’t enter mobile number, he must see displayed message “please enter a valid mobile number”.

**SRS\_UserSignIn\_02:**

* **SRS\_SignIn\_01 Email:** Must Be The in DB.
* **SRS\_SignIn\_02 Email:** Not Be blank.
* **SRS\_SignIn\_03 Password:** Must Be in The DB.
* **SRS\_SignIn\_04 Password:** This password should be specific to this e-mail.
* **SRS\_SignIn\_05 Password:** Not be blank.
* **SRS\_SignIn\_06:** When user enters a valid email (according to SRS\_SignIn\_01, SRS\_SignIn\_02) and password email (according to SRS\_SignIn\_03, SRS\_SignIn\_04 and SRS\_SignIn\_05), the system allows the user to redirect to the main page and display “You Sign in Successfully.”
* **SRS\_SignIn\_07:** When the user enters an invalid email format (according to SRS\_SignIn\_01), displays an error message "Invalid email format."
* **SRS\_SignIn\_08:** When the user leaves the email field blank (according to SRS\_SignIn\_02), display an error message "Email must not be blank."
* **SRS\_SignIn\_09:** When the user enters a password with less than 8 characters (according to SRS\_SignIn\_03), display an error message "Password must be at least 8 characters."
* **SRS\_SignIn\_10:** When the user leaves the password field blank (according to SRS\_SignIn\_02), display an error message "Password must not be blank."
* **SRS\_SignIn\_11:**When the user enters an invalid email format (according to SRS\_SignIn\_01 or SRS\_SignIn\_02) and invalied password (according to SRS\_SignIn\_03 or SRS\_SignIn\_04 or SRS\_SignIn\_05) it displays Error message

**SRS\_UserSelectItems\_03:**

* **SRS\_SelectItems\_01:** User can select an item from the restaurant menu.
* **SRS\_SelectItems\_02:** The selected item must be available in the restaurant's menu database.
* **SRS\_SelectItems\_03:** The item details must include name, description, and price.
* **SRS\_SelectItems\_04:** When a user selects an item, it should be added to their shopping cart.
* **SRS\_SelectItems\_05:** If the item is not available, the system should display an appropriate message ("Item is out of stock").

**SRS\_UserViewMenu\_04:**

* **SRS\_ViewMenu\_01:** The user can view the complete menu of a restaurant.
* **SRS\_ViewMenu\_02:** Each menu item should display the name, description, and price.

**SRS\_UserMakeOrder\_05:**

* **SRS\_MakeOrder\_01:** The user can place an order after adding items to their cart.
* **SRS\_MakeOrder\_02:** The system should allow the user to add delivery details and choose a payment method.
* **SRS\_MakeOrder\_03:** When the user successfully makes an order, the system should confirm with a success message ("Order placed successfully").
* **SRS\_MakeOrder\_04:** If the user attempts to order with an empty cart, the system should display an appropriate message ("Your cart is empty").

**SRS\_UserSearchResturant\_06:**

* **SRS\_SearchRestaurant\_01:** The user can search for restaurants based on name.
* **SRS\_SearchRestaurant\_02:** If no restaurants match the search criteria, the system should display a message ("No restaurants found").

**SRS\_UserAddToCart\_07:**

* **SRS\_AddToCart\_01:** The user can add selected items to their shopping cart.
* **SRS\_AddToCart\_02:** The system should maintain the cart contents during the user's session.

**SRS\_UserDeleteFromCart\_08:**

* **SRS\_DeleteFromCart\_01:** The user can remove items from their shopping cart.
* **SRS\_DeleteFromCart\_02:** If the user deletes an item from the cart, the system should confirm with a message ("Item removed from cart").

**SRS\_SelectPayment\_09:**

* **SRS\_SelectPaymentType\_01:** The system should allow the user to choose a payment type before submitting the order.
* **SRS\_SelectPaymentType\_02:** Supported payment types should include credit card, cash.
* **SRS\_SelectPaymentType\_03:** If the user does not select a payment type, the system should prompt them to do so with a message ("Please select a payment method").

**SRS\_SubmitOrder\_10:**

* **SRS\_SubmitOrder\_01:** The system should allow the user to submit their order once they have selected items and a payment type.
* **SRS\_SubmitOrder\_02:** Before submitting, the system should allow the user to review the order details, including items, quantities, prices, and delivery information.
* **SRS\_SubmitOrder\_03:** When the order is successfully submitted, the system should display a confirmation message ("Your order has been submitted").

**SRS\_AdminLogin\_11:**

* **SRS\_AdminLogin\_01 Username:** Must be a valid username.
* **SRS\_AdminLogin\_02 Username:** Must not be blank.
* **SRS\_AdminLogin\_03 Password:** At least 8 characters.
* **SRS\_AdminLogin\_04 Password:** Must not be blank.
* **SRS\_AdminLogin\_05:** When admin enters a valid username (according to SRS\_UserSignIn\_01, SRS\_UserSignIn\_02) and password (according to SRS\_UserSignIn\_03, SRS\_UserSignIn\_04), the system allows the admin to log in successfully.
  + **SRS\_AdminLogin\_06:** When the admin enters an invalid username format (according to SRS\_UserSignIn\_01), displays an error message "Invalid username format." **&** When the admin leaves the username field blank (according to SRS\_UserSignIn\_02), display an error message "Username must not be blank."
  + **SRS\_AdminLogin\_07:** When the admin enters a password with less than 8 characters (according to SRS\_UserSignIn\_03), display an error message "Password must be at least 8 characters." **&** When the admin leaves the password field blank (according to SRS\_UserSignIn\_04), display an error message "Password must not be blank."

**SRS\_Logout\_12:**

* **SRS\_Logout\_01:** Admin or user can successfully logout, and direct to the login page.

**SRS\_AdminCreateUser\_13:**

* **SRS\_AdminCreateUser\_01 Username:** Must be a valid username.
* **SRS\_AdminCreateUser\_02 Username:** Must not be blank.
* **SRS\_AdminCreateUser\_03 Email:** Must be a valid email.
* **SRS\_AdminCreateUser\_04 Email:** Must not be blank.
* **SRS\_AdminCreateUser\_05 Password:** Must be at least 8 characters.
* **SRS\_AdminCreateUser\_06 Password:** Must not be blank.
* **SRS\_AdminCreateUser\_07 Role:** Must be a valid role (admin or user).
* **SRS\_AdminCreateUser\_08:** When admin enters a valid username (according to SRS\_ AdminCreateUser\_01, SRS\_ AdminCreateUser\_02), email (according to SRS\_ AdminCreateUser\_03, SRS\_ AdminCreateUser\_04), password (according to SRS\_ AdminCreateUser\_05, SRS\_ AdminCreateUser\_06), and role (according to SRS\_ AdminCreateUser\_07), the system creates the user successfully.
* **SRS\_AdminCreateUser\_09:** When the admin enters an invalid username (according to SRS\_ AdminCreateUser\_01) displays the message "Username must be valid." **&** When the admin leaves the username (according to SRS\_ AdminCreateUser\_02) field blank, display the message "Username must not be blank."
* **SRS\_AdminCreateUser\_10:** When the admin enters an invalid email format (according to SRS\_ AdminCreateUser\_03) displays the message "Invalid email format." **&** If the admin leaves the email field blank (according to SRS\_ AdminCreateUser\_04), display the message "Email must not be blank."
* **SRS\_AdminCreateUser\_11:** When the admin enters a password with less than 8 characters (according to SRS\_ AdminCreateUser\_05), display the message "Password must be at least 8 characters." **&** When the admin leaves the password field blank (according to SRS\_ AdminCreateUser\_06), displays the message "Password must not be blank."
* **SRS\_AdminCreateUser\_12:** When the admin selects an invalid role (according to SRS\_ AdminCreateUser\_07), display the message "Invalid role selected."

**SRS\_AdminDeleteUser\_14:**

**SRS\_AdminDeleteUser\_01:** The system presents a list of users to the admin.

The admin selects a user from the list to delete.

The system removes the selected user from the database.

The system displays a confirmation message to the admin indicating the successful deletion of the user.

**SRS\_AdminEditMenu\_15:**

1. **SRS\_AdminEditMenu\_add\_01:**

* Name of item must be String,
* Name must not be blank
* Length of name must be At least 8 characters.

1. **SRS\_AdminEditMenu\_add\_02:**

* price of item must be number
* price must not be blank
* Price must not be zero.

1. **SRS\_AdminEditMenu\_add\_03:**

* Description of item must be string,
* Description must not be blank
* Length of description must be At least 8 characters.

1. **SRS\_AdminEditMenu\_add\_04:**

* When admin add item to menu, enter details for the new item with valid name (according to SRS\_AdminEditMenu\_add\_01),valid price (according SRS\_AdminEditMenu\_add\_02) and valid description (according SRS\_AdminEditMenu\_add\_03).
* A message will be display contain “item added successfully”.

1. **SRS\_AdminEditMenu\_add\_05:**

* When admin add item to menu, enter valid details for the new item with valid name (according to SRS\_AdminEditMenu\_add\_01),valid price(accordingSRS\_AdminEditMenu\_add\_02) and invalid description with number (according SRS\_AdminEditMenu\_add\_03).
* A message will be display contain “item not added in description”.

1. **SRS\_AdminEditMenu\_add\_06:**

* When admin add item to menu, enter details for the new item with invalid name (accordingSRS\_AdminEditMenu\_add\_01),valid price(accordingSRS\_AdminEditMenu\_add\_02) and valid description with number (according SRS\_AdminEditMenu\_add\_03).
* A message will be display contain “item not added Error in name”.

1. **SRS\_AdminEditMenu\_add\_07:**

* When admin add item to menu, enter details for the new item with valid name (according to SRS\_AdminEditMenu\_add\_01),invalid price(accordingSRS\_AdminEditMenu\_add\_02) and valid description with number (according SRS\_AdminEditMenu\_add\_03).
* A message will be display contain “item not added Error in price”.

1. **SRS\_AdminEditMenu\_delete\_01:**
   * + When admin delete item from menu.
     + Admin enter name of item name (according to SRS\_AdminEditMenu\_add\_01)
     + The item is removed from the menu.

**SRS\_UpdateMenuPrices\_16:**

* **SRS\_UpdateMenuPrices\_01**

The system presents a list of items in the menu with their current prices.

The admin selects an item from the list to update its price.

The admin enters the new price for the selected item.

The system validates that the new price is a valid numerical value.

If the new price is valid, the system updates the price for the selected item.

The system displays a confirmation message to the admin indicating the successful update of the price.

* **SRS\_UpdateMenuPrices\_02:**

The admin selects an item to update its price.

The admin enters a non-numerical value (e.g., "ABC") as the new price.

The system detects the non-numerical value.

The system displays an error message asking the admin to enter a valid numerical value.

**SRS\_AdminEditRestaurant\_17:**

1. **SRS\_AdminEditRestaurant\_add\_01:**

* Name of Restaurant must be String,
* Name must not be blank
* Length of name must be At least 8 characters.

1. **SRS\_AdminEditRestaurant\_add\_02:**

* Description of restaurant must be string,
* Description must not be blank
* Length of description must be At least 8 characters

1. **SRS\_AdminEditRestaurant\_add\_03:**

* When admin add restaurant to the site, enter details for restaurant with valid name (according to SRS\_AdminEditMenu\_add\_01) and valid description (according to SRS\_AdminEditMenu\_add\_03).
* A message will be display contain “restaurant added successfully”.

1. **SRS\_AdminEditRestaurant\_add\_04:**

* When admin add dish to menu, enter valid details for the new dish with valid name (according to SRS\_AdminEditRestaurant\_add\_01), and invalid description with number (according to SRS\_AdminEditRestaurant\_add\_03)
* A message will be display contain “Invalid description”.

1. **SRS\_AdminEditRestaurant\_add\_05:**

* When admin add dish to menu, enter details for the new dish with invalid name (according toSRS\_AdminEditRestaurant\_add\_01),and valid description with number (according to SRS\_AdminEditRestaurant\_add\_03).
* A message will be display contain “Invalid Name”.

1. **SRS\_AdminEditRestaurant\_delete\_01:**
   * + When admin delete restaurant from the site the restaurant will be deleted.