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| Project: | | University Food System (UFS) | | | |
| Team No.: | | Team 3 | | | |
| Class: | | CSE 3310; Fall 2021 | | | |
| Module: | | Test Plan | | | |
| Deliverable: | | Test Plan Document | | | |
| Version: | | | [1.0] | Date: | [11/18/2021] |

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Revision History

| Version number | Date | Originator | Reason for change | High level description of changes |
| --- | --- | --- | --- | --- |
| 1.0 | 11/13/2021 | Team 3 | Initial draft |  |
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# 1. Introduction and Plan of Approach

Provide a brief description for the following areas:

Develop an android application to help university students order food and provide information about on-campus and near-campus restaurants and food providers (e.g., restaurant review and comments). The system should have an appealing home screen and minimally include the following functionality (you may modify or add additional functionality after receiving approval from your client):

* Login and Registration: Students must register before they can use the system. University ID can be used as member Id. Members must login to use the system after initial registration.
* Search: You should be able to search for different food items or restaurants
* Payments: System should be able to handle payments (Meal plan and Credit cards only; You do not need to validate credit cards for this project, just make them 16 digits long, have an expiration date, and a 3-digit security code)
* Orders: Place food order (e.g., Sandwich and coke with chips etc.). System should also allow for modifying your order after the initial placement within 5 minutes of your initial order time (i.e., cancel an order to modify existing order by adding new items).
* Restaurants: System should allow vendors to add their restaurants and their menu (e.g., subway, Panda express, connection café and other on campus restaurants).
* Advertisements: System should provide advertising space (e.g. Local subway store offers specials or coupons to members). This could be a source of revenue from the app.
* Delivery: System should allow students to track their order and get their food delivered or select an option for pick up.
* Communication: System should allow for sending text messages/e-mails to a single, subgroup or all members (e.g., Your order has been placed, your order is on its way etc.)
* Review and Rating: Use Stars (one to five stars) to rate the service received, and allow to enter for a short comment to help future users
* {**for Honors Credit only**}
  + Create a map displaying your location and the resultants.
  + Include an accurate time estimation of the project. Prepare a 6-page report (single-space, font 11 or 12) using “Softstar Systems – COCOMO estimation” at: <http://www.softstarsystems.com/demo.htm>

# 2. Test Cases: “Login and Registration”

**Project Name:** University Food System

**Test Case Name:** Login and Registration

**Test Case Id**: CSE3310/Fall 2021/Team3/ Login-and-Registration

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | {In Login Screen}  Tab into the User and password fields and enter a valid user id/password (a test id should be created and provided to testers) | System should let you in |  |
| TC2 | {In Login Screen}  Tab into the User and password fields and enter an invalid user id/password | System should not accept and prevent you from entry.  Display error messages:  “Invalid user id/password” |  |
| TC3 | {In Login Screen}  Enter valid user id (see TC1 above) and press “Forgot password” | System should:   * Ask answer to security question and if correct * An e-mail with a temporary password should be sent |  |
| TC4 | {In Login Screen}  Tab into ‘Create New Account’ button | System should navigate user to registration screen for user to create a new account |  |
| TC5 | {In Registration Screen}  Tab into the email, password fields and enter a valid user id/password. Then click on the Sign In button | System should accept the newly created account and navigate the user to the homepage of the application |  |
|  |  |  |  |
| TC6 | {In Registration Screen}  Tab into the email, passwords fields and enter invalid email or password | System should reject the user and display notification to retype the information again.  Error message for email:  “Email not exists or already taken”  Error message for password:  “Password must be at least 8 characters and combine with numeric and alphabetic characters” |  |
| TC7 | Tab into the Phone Number fields and enter alphabetic characters | System should not accept the input and display message:  “Phone Number only consists of number” |  |
| TC8 | The user fails to fill in all fields, or leave a field blank, including Name, Email, Password, Phone Number | System should not accept and display messages: “Please fill in all required fields to create new account” |  |

# 3. Test Cases: “Order”

**Project Name:** University Food System

**Test Case Name:** Order

**Test Case Id**: CSE3310/Fall 2021/Team3/ Order

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | Enter screen and try to place an order without logging in first | System should prevent this action by displaying an error message “Please login first” |  |
| TC2 | After Login, attempt to place an order | System should not allow you to order, instead display message:  “Please choose a restaurant before order” |  |
| TC3 | After Restaurant Selection, click on the drop-down menu, select some food and drink items to order, press submit | System should not allow you to proceed, instead it should take you to the shopping cart to review the order |  |
| TC4 | For each image of the food or drink on the menu, click on the ‘+’ or ‘-‘ buttons | System should update the shopping cart after each change:  If click on ‘+’: increment the item from the user’s order  If click on ‘- ‘: remove the item from the user’s order |  |
| TC5 | Click on ‘View Cart’ to view the purchased items and modify if necessary | The cart should display all items and their price, at the same time display the total amount that the user has to pay |  |
| TC6 | Click on ‘Proceed to Checkout’ button | System should navigate user to payment screen |  |
| TC7 | Click on ‘Continue Shopping’ button | System should let user go back to the main screen of the menu to continue their order |  |
| TC8 | Click on ‘Cancel Order’ | System prompts the question for user to select if they want to cancel their order  If ‘Yes’: Delete the current shopping cart, navigate the user back to the menu  If ‘No’: Remain in current state |  |

# 4. Test Cases: “Search”

**Project Name:** University Food System

**Test Case Name:** Search

**Test Case Id**: CSE3310/Fall 2021/Team3/Search

|  |  |  |  |
| --- | --- | --- | --- |
| **Test**  **Case**  **No.** | **Test Case Description** | **Expected Results** | **Outcome**  **Pass, Fail, Other**  **(comments)** |
| TC1 | If nothing is typed in the search box, search button cannot be clicked. | Search box will require an input to show relevant results. |  |
| TC2 | Tab into the search box and enter a valid food name/ restaurant name | System should display search results. Search should be relevant to searched keyword. |  |
| TC3 | Tab into the search box and enter an invalid item name | System should show the error message - “No results found. Please try again” |  |
| TC4 | If search input is invalid, tab into the search box again | System should allow the user to search for items unlimited times. Even from the results page |  |
| TC5 | If search box is used multiple time, keep track of history | Search box should maintain history of previously entered keywords |  |
| TC6 | The user typed in some characters that matched the name of location of a restaurant | Search box should display suggestions in a list |  |

# 5. Test Cases: “Payments”

**Project Name:** University Food System

**Test Case Name:**  Payments

**Test Case Id**: CSE3310/Fall 2021/Team3/Payments

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | Enter Payment screen user tries to press Next without choosing payment method | System will tell user they must choose between Meal plan or Credit Card |  |
| TC2 | Ask User Payment method  (User press Credit Card) | System should allow User to  Enter 16-digit card number along with expiration date |  |
| TC3 | Ask User Payment method  (User press Meal Plan) | System should allow User to  Enter 10-digit student ID number |  |
| TC4 | If User would like to add more items to cart | User will be prompted back to the Search page |  |
| TC5 | If User would like to delete an item from the cart | User will be prompted back to the Order Page. |  |
| TC6 | If user enters a card number greater than 16 or less than 16, or the card number does not exist | System will tell user “Invalid card number. Please re-enter card’s information” |  |
| TC7 | If user enters a student ID number greater than 10 or less than 110 | System will tell user “Invalid student number. Please enter valid student ID” |  |
| TC8 | If user enters an expiration date number greater than 10 or less than 10 | System will tell user “Invalid expiration date” |  |
| TC9 | {Meal Plan screen}  If the user enters a valid student ID number, such as  Student ID: 1001703030  Click on the “Submit payment” | System will tell user “Purchase by Meal Plan successfully”. Display the number of meals left on the card and dining dollars |  |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC10 | {Credit Card Payment screen}  If the user enters a valid card number, security code, and expiration date such as:  Card Number: ‘5431 5894 8091 6212’  CV: 789  Expiration date: 10/24  Click on “Pay for order” button | System will ask user if he/she wants to save the card’s information. If the user agrees, store the user’s card and display the message “Thank you for your purchase” |  |
| TC11 | For both {Meal Plan} and {Credit Card} methods, if the user selects delivery options | System request user to enter phone number and home address. Also, allow user to write additional instructions for delivery |  |
| TC12 | After payment method was entered and completed Delivery method will appear | User will receive an order confirmation code once payment is completed |  |

# 6. Test Cases: “Delivery”

**Project Name:** University Food System

**Test Case Name:** Service Request

**Test Case Id**: CSE3310/Fall 2021/Team3/Delivery

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| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | User will be directed to Delivery page | System will ask user “Delivery or Pickup” |  |
| TC2 | If delivery is picked | System will allow user to contact driver, restaurant, and check on the ETA |  |
| TC3 | If pickup is picked | System will give user and ETA is pick up order |  |
| TC4 | If delivery was picked and User wants to track order, User enters order number | System will tell user how far the driver is away |  |
| TC5 | If delivery was picked and User wants to track order, User enters order number, and order doesn’t exist | System will tell user “Sorry no order found” |  |
| TC6 | If user wants to contact driver or restaurant | Driver info and Restaurant info will be shown to user |  |

# 7. Test Cases: “Communication”

**Project Name:** University Food System

**Test Case Name:** Communication

**Test Case Id**: CSE3310/Fall 2021/Team3/Communication

|  |  |  |  |
| --- | --- | --- | --- |
| **Test**  **Case**  **No.** | **Test Case Description** | **Expected Results** | **Outcome**  **Pass, Fail, Other**  **(comments)** |
| TC1 | Select some  food and drink items to  order, press submit | System should display message. “Your order has been confirmed” |  |
| TC2 | User placed an order | System will automatically display notifications to user. Example - “Your order is being processed” |  |
| TC3 | Tab on check updates | System will display ETA |  |
| TC4 | User can keep on checking for updates till the order has been delivered | System will display any new updates if available, e.g.- “Driver has picked up your order” |  |
| TC5 | Get delivery notification | System will notify user that order has been delivered |  |
| TC6 | User wants to contact the restaurant or send an email to make special request or complaints | System will attach the restaurant’s phone number and email address below its main page |  |

# 8. Test Cases: “Restaurant and Advertisement”

**Project Name:** University Food System

**Test Case Name:** Restaurant

**Test Case Id**: CSE3310/Fall 2021/Team3/Restaurant and Advertisement

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | {on Homepage}  Scroll through all restaurants | Each test restaurant (6 total) should be viewable and display a name, image, and type of cuisine |  |
| TC2 | {On Homepage}  Click a restaurant box | You should be taken to the restaurant page where the menu can be seen (each restaurant will display 10 test menu items) |  |
| TC3 | {On homepage}  Check a closed restaurant | One restaurant will be closed (to be specified) if clicked a message will appear notifying user |  |
| TC4 | {Restaurant Page}  Scroll through menu display | Each restaurant will display 10 menu items with a name, description, image and price |  |
| TC5 | {On homepage}  Advertisement at bottom of page | One advertisement should appear at the bottom of the page for a restaurant being promoted. If clicked user will be directed to that restaurants page |  |

# 9. Test Cases: “Ratings”

**Project Name:** University Food System

**Test Case Name:** Ratings

**Test Case Id**: CSE3310/Fall 2021/Team3/Ratings

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| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | {On ratings page}  Scroll through ratings boxes | Each previous order will be seen and given the option to rate if an order is already rated number of stars will be shown and order won’t be clickable |  |
| TC2 | {On ratings page}  Click a rating | Clicking a rating will direct you to the rating page |  |
| TC3 | {On rate page}  Complete rating giving number of stars and description of why | On the ratings page completed rating should show number of stars and no longer be clickable |  |