**Fast Food Restaurant**

**Project Number: 1**

**Test Plan**

**Version Date: 09/14/2016**

**Effective Date: 09/28/2016**

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Scrum master: Nolan O’Donnell

Product owner: Ashly Hernandez

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# Purpose of the test plan:

### To find the defects and errors that were made during the development phases

### To make sure an the product of this project can be handled in any circumstances

### To satisfy the requirements and gain the reliability of the product owner.

# Scope of the test plan:

* The total distance of each trip
* The total spent of each trip
* The maintenance of the software
  + Administrator Access
  + Add new restaurant
  + Add/Delete Menu items
  + Change the menu item’s price

# Test Environment: Travis CI

# Test technique: Continuous Integration Testing will be used however black box testing will also be perform on each agile story. Additionally, decision table testing will be used as one of the technique for Black Box Testing.

# Overall test strategy:

### Each member are free to choose what to be tested on each test case.

### The time to start testing will be at the beginning of each meeting, and can be at CS Lab or outside of the Lab

### There will be at least 2 tests cases in every meeting.

### The first date of testing is October 3rd, 2016

### The test case on a specific feature of the software will be postponed if the assignee(s), who are working on that feature, haven’t finished it.

### During each test cases, if bugs/errors are found, that test cases must be put on hold until the bugs/errors are fixed so that the test can be continued. This applies to all levels of bugs/errors which cause the defects of the software.

### There will be no hardware needed for the entire test plan.

### Software needed for the test: Qt, Eclipse, SqlLite (Optional)

### Approval process: Will be based on the approval of all members in the team. The process is subject to change.

### Approval Process: when all tests case return the pass results, which means no error or bugs found during performing the test cases.

### There won’t be any necessary training for the testing

# Test cases:

### Test cases on total distance:

### Initial List

* Scenario: A student wants to know the total distance when travelling on an initial list of restaurant
* Description: The List includes 10 initial restaurants, which are McDonalds, Chipotle, Dominos Pizza, KFC, Subway, In-N-Out Burger, Wendys, Jack in the Box, El Pollo Loco, Papa John Pizza.
* Tester: Teddy, Ashly
* Date of Testing: 10/03/2016
* Status: Approved
* Comment: There is no suspension during this test case

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Condition*** | | | | | | | | | | ***Action*** |
| From SC to Chipotle | From Chipotle to  Subway | From Subway to  In-N-Out Burger | From In-N-Out Burger to El Pollo Loco | From El Pollo Loco to  Jack in the Box | From Jack in the Box to Wendys | From Wendys to Papa Johns Pizza | From Papa Johns Pizza to McDonalds | From McDonalds to  KFC | From KFC to  Dominos Pizza | Expected Distance |
| 2.29 | 0.1 | 4.5 | 5.1 | 5.7 | 0.7 | 4 | 3.5 | 11.5 | 4.3 | 41.69 |

### Custom List 1

* Scenario: A student wants to visit of custom list of restaurant consisting of 3 restaurants and know the total distance from that trip
* Description: The 3 restaurants are McDonalds, Chipotle, Domino Pizza
* Tester: Teddy, Ashly
* Date of Testing: 10/03/2016
* Status: Approved
* Comment: There is no suspension during this test case

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | ***Action*** |
| From SC to Chipotle | From Chipotle to McDonalds | From McDonalds to Domino Pizza | Expected Output |
| 2.29 | 13.2 | 15.4 | 30.89 |

### Custom List 2

* Scenario: A student wants to visit 2 restaurants
* Description: The restaurants are Dominos Pizza, Wendys
* Tester: Teddy
* Date of Testing: 10/05/2016
* Status: Approved
* Comment: There is no suspension during this test case

|  |  |  |
| --- | --- | --- |
| ***Condition*** | | ***Action*** |
| From SC to Wendys | From Wendys to Dominos Pizza | Expected Output |
| 8.44 | 18.4 | 26.84 |

### Custom List 3

* Scenario: A student wants to visit shortest trip from Saddleback College, which includes 6 restaurants, and know the total distance travelled
* Description: The 6 restaurants: KFC, Subway, In-N-Out Burger, Wendys, El Pollo Loco, Papa Johns Pizza
* Tester: Teddy
* Date of Testing: 10/05/2016
* Status: Approved
* Comment: There is no suspension during this test case

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Condition*** | | | | | | ***Action*** |
| From SC to Papa Johns Pizza | From Papa Johns Pizza to Wendys | From Wendys to  El Pollo Loco | From El Pollo Loco to Subway | From Subway to In-N-Out Burger | From In-N-Out Burger  to KFC | Expected Output |
| 3.54 | 4 | 5.8 | 5.1 | 4.5 | 9.4 | 32.34 |

### Custom List 4

* Scenario: A student wants to visit of list of 4 restaurant
* Description: The 4 restaurants are Wendys, KFC, El Pollo Poco, Jack in the Box
* Tester: Teddy
* Date of Testing: 10/10/2016
* Status: Approved
* Comment: There is no suspension during this test case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Condition*** | | | | ***Action*** |
| From SC to KFC | From KFC to  El Pollo Loco | From El Pollo Loco to  Jack in the Box | From Jack in the Box to Wendys | Expected Output |
| 5.56 | 13.2 | 5.7 | 0.7 | 25.16 |

### Custom List 5

* Scenario: A student wants visit 7 restaurants
* Description: The restaurants are McDonalds, Subway, In-N-Out Burger, Wendys, Jack in the Box, El Pollo Poco, Papa John Pizza
* Tester: Ashly
* Date of Testing: 10/10/2016
* Status: Approved
* Comment: There is no suspension during this test case

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Condition*** | | | | | | | ***Action*** |
| From SC to  Papa John Pizza | From Papa John Pizza to  McDonalds | From McDonalds to Wendys | From Wendys to Jack in the Box | From Jack in the Box to El Pollo Loco | From El Pollo Loco to Subway | From Subway to In-N-Out Burger | Expected Output |
| 3.54 | 3.5 | 5.8 | 0.7 | 5.7 | 5.1 | 4.5 | 28.84 |

### Shortest Trip 1 (7 restaurants)

* Scenario: A student wants to visit 6 restaurants that are close to Saddleback College, starting at In-N-Out Burger
* Description: Starting from In-N-Out Burger and visit 6 closest restaurants
* Tester: Ashly
* Date of Testing: 10/12/2016
* Status: Approved
* Comment: There is no suspension during this test case

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Condition*** | | | | | | ***Action*** |
| From SC to In-N-Out Burger | From In-N-Out Burger  to Chipotle | From Chipotle to Subway | From Subway to El Pollo Loco | From El Pollo Loco to Jack in the Box | From Jack in the Box to Wendys | Expected Output |
| 7.94 | 4.2 | 0.1 | 5.1 | 5.7 | 0.7 | 23.74 |

### Shortest Trip 2 (4 restaurants)

* Scenario: A student wants to visit 3 restaurants that are close to Saddleback College, starting at In-N-Out Burger
* Description: Starting from Subway and visit 3 closest restaurants
* Tester: Nolan
* Date of Testing: 10/12/2016
* Status: Approved
* Comment: There is no suspension during this test case

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | ***Action*** |
| From SC to Subway | From Subway to Chipotle | From Chipotle to In-N-Out Burger | Expected Output |
| 9.67 | 0.1 | 4.2 | 13.97 |

### Shortest Trip 3 (9 restaurants)

* Scenario: A student wants to visit 8 restaurants that are close to Saddleback College, starting at In-N-Out Burger
* Description: Starting from Dominos Pizza and visit 8 closest restaurants
* Tester: Nolan
* Date of Testing: 10/12/2016
* Status: Approved
* Comment: There is no suspension during this test case

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Condition*** | | | | | | | | ***Action*** |
| From SC to Dominos Pizza | From Domino Pizza to KFC | From KFC to Subway | From Subway to Chipotle | From Chipotle to In-N-Out Burger | From In-N-Out Burger to El Pollo Loco | From El Pollo Loco to Jack in the Box | From Jack in the Box  to Wendys | Expected Output |
| 12.41 | 4.3 | 8.1 | 0.1 | 4.2 | 5.1 | 5.7 | 0.7 | 40.61 |

### 

### Test cases on Money Spent

* Detail on the test cases:
  + For each restaurant visited, the student will be able to see what he/she order.
  + The student will also see the total price after the trip

### #1 Custom Trip 1

* Scenario: A student wants to know how much he/she spent on a trip from Saddleback to 4 restaurant
* Detail: He/she travels to KFC, Subway, In-N-Out Burger, and Wendys
* Tester: Ashly
* Date of Testing: 10/12/2016
* Status: Approved
* Comment: There is no suspension during this test case

At KFC:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Three Pieces Original  Fried Chicken | 1 | 6.97 | 6.97 |
| Mash Potatoes | 1 | 5.97 | 5.97 |

At Subway:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Veggie Sandwich | 3 | 4.97 | 14.91 |
| Italian Sandwich | 1 | 7.97 | 7.97 |
| Turkey Sandwich | 2 | 5.97 | 11.94 |

At In-N-Out Burger:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Hamburger | 1 | 2.97 | 2.97 |
| Milk Shake | 3 | 3.29 | 9.87 |

At Wendys:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Hamburger | 2 | 3.97 | 7.94 |
| Small Classic Chocolate Frosty | 1 | 2.97 | 2.97 |
| French Fries | 2 | 1.79 | 3.58 |

|  |  |
| --- | --- |
| ***Action*** | Expected Total Price |
| 75.09 |
| Expected total item |
| 17 |

### #2 Custom Trip 2

* Scenario: A student wants to know how much he/she spent on a trip from Saddleback to 3 restaurant. Additionally, during the trip, that student will make two different orders at one restaurant
* Detail: The student goes to Chipotle (with two different orders), Papa John Pizza, and McDonalds
* Tester: John
* Date of Testing: 10/17/2016
* Status: Approved
* Comment: There is no suspension during this test case

Chipotle (#1 order):

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Veggie Burrito | 1 | 7.97 | 7.97 |
| Steak Taco | 1 | 3.97 | 3.97 |
| Steack Burrito | 1 | 6.97 | 6.97 |
| Chicken Taco | 1 | 5.97 | 5.97 |

Chipotle (#2 order):

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Veggie Taco | 1 | 5.97 | 5.97 |
| Veggie Burrito | 2 | 7.97 | 15.94 |
| Steak Taco | 3 | 3.97 | 11.91 |
| Chicken Burrito | 5 | 5.97 | 29.85 |

Papa John Pizza:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Veggie Pizza | 1 | 7.09 | 7.09 |
| All Meat Pizza | 1 | 12.97 | 12.97 |
| Cheese Pizza | 2 | 6.93 | 13.86 |

McDonalds:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Big Mac | 1 | 4.97 | 4.97 |
| French Fries | 1 | 2.97 | 2.97 |
| Double Cheeseburger | 1 | 5.29 | 5.29 |
| Filet-O-Fish | 1 | 3.33 | 3.33 |

|  |  |
| --- | --- |
| ***Action*** | Expected total price |
| 139.03 |
| Expected total item |
| 23 |

### #2 Custom Trip 3

* Scenario: A student wants to know how much he/she spent on a trip from Saddleback to 6 restaurant
* Detail: That student goes to McDonalds, Chipotle, In-N-Out Burger, Wendys, Jack in the Box, and El Pollo Loco
* Date of Testing: 10/17/2016
* Status: Approved
* Comment: There is no suspension during this test case

McDonalds:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Quarter Pounder with Cheese | 1 | 4.9 | 4.9 |
| Filet-O-Fish | 4 | 3.33 | 13.32 |
| McRibs | 1 | 4.97 | 4.97 |

Chipotle:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Veggie Taco | 1 | 5.97 | 5.97 |
| Veggie Burrito | 1 | 7.97 | 7.97 |
| Chicken Burrito | 2 | 5.97 | 11.94 |

In-N-Out:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| French Fries | 3 | 1.79 | 5.37 |
| Medium Coke | 3 | 2.35 | 7.05 |

Ell Pollo Loco:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Chicken Tortilla Soup | 4 | 5.25 | 21 |
| Monterry Pollo Salad | 1 | 6.91 | 6.91 |

Jack in the Box:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Grilled Chicken Salad | 3 | 5.97 | 17.91 |

Wendy:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Price | Quantity | Sub-total |
| Small Classic Chocolate Frosty | 1 | 2.97 | 2.97 |
| French Fries | 2 | 1.79 | 3.58 |

|  |  |
| --- | --- |
| ***Action*** | Expected total price |
| 113.86 |
| Expected total item |
| 27 |

### #3 Custom Trip 4

* Scenario: A student wants to know how much he/she spent on a trip from Saddleback to 2 restaurant. In addition, that student will make two different orders at one restaurant and three different orders at another restaurant
* Detail: The student goes to Chipotle (with three different orders), and McDonalds (with 2 different orders)
* Tester: John
* Date of Testing: 10/17/2016
* Status: Approved
* Comment: There is no suspension during this test case

Chipotle (#1 order):

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Steak Taco | 2 | 3.97 | 7.94 |
| Chicken Taco | 1 | 4.97 | 4.97 |
| Chicken Burrito | 1 | 5.97 | 5.97 |

Chipotle (#2 order):

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Steak Taco | 4 | 3.97 | 15.88 |

Chipotle (#3 order):

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Veggie Taco | 1 | 5.97 | 5.97 |
| Veggie Burrito | 1 | 7.97 | 7.97 |

McDonalds (#1 order):

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| French Fries | 1 | 2.97 | 2.97 |
| Quarter Pounder with Cheese | 1 | 4.9 | 4.9 |
| Filet-O-Fish | 1 | 3.33 | 3.33 |

McDonalds (#2 order):

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | | | |
| Name | Quantity | Price | Sub-total |
| Big Mac | 1 | 4.97 | 4.97 |
| McRibs | 3 | 4.97 | 14.91 |

|  |  |
| --- | --- |
| ***Action*** | Expected total price |
| 79.78 |
| Expected total item |
| 17 |

### Test cases on Display the restaurant:

* Scenario: A student wants to view the list of restaurants that he/she can start from Saddleback College to those restaurants.
* Description: Using the database file, which is linked to the project, to display the list
* Date of Testing: 10/17/2016
* Tester: John
* Status: Approved
* Comment: This test was on hold during the meeting but problem was solved and the testing continued on the same day

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Condition*** | **Database file** | Missing | Invalid type | Invalid information | Valid |
| ***Action*** | **The list** | Invalid | Invalid | Invalid | Valid |

### Test cases on Maintenance

* Detail about the test case:
  + On the Action’s row,
    - TRUE means the action of the specific task is successful
    - FALSE means the action of the same task is unsuccessful
  + On the Condition’s row
    - *Blank* means the input for the specific task is left empty by the user
    - *Filled* means the user has entered something to the text box
    - *Exist* means the input number (restaurant’s number for order) is already appeared in the database
    - *New* means the input number is not existed in the database
    - *Valid* means logical input
      * For password, however, *Valid* means the correct password for login
    - *Invalid* means illegal and illogical input such as special characters
      * For password, additionally, *Invalid* means the incorrect password for login and the special characters

### #1 Administrator Log-in Dialog

* Scenario: A user tries to access the Administrator control
* Description: A password is needed to access the Admin control, no username needed
* Tester: Nhan
* Date of Testing: 10/19/2016
* Status: Approved
* Comment: A bug was found during the test but was quickly fixed on the same day for this test
  + Details on the bug: After the error message pops out, the invalid input remains in the text box
  + Fixed version: The text box is clear along with the error message

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Condition*** | **Password input** | Blank | Invalid | Valid |
| ***Action*** | **Log-in** | FALSE | FALSE | TRUE |

### #2 Add restaurant

* Scenario: An administrator wants to add a restaurant
* Description: A new restaurant is successfully added with its name, the new number in order according to the database, along with the distance from that restaurant to Saddleback College and to other previously added restaurant.
* Tester: Ashly
* Date of testing: 10/19/2016
* Status: Approved
* Comment: There is no suspension during this test case

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Condition*** | **Restaurant Name** | Blank | Filled | Blank | Filled | Blank | Filled |
| **Number** | Existed | New | Invalid | Existed | New | Invalid |
| **Distance from SC** | Invalid | Valid | Invalid | Valid | Invalid | Valid |
| ***Action*** | **Restaurant added** | FALSE | TRUE | FALSE | FALSE | FALSE | FALSE |

### #3 Add menu item

* Scenario: An administrator wants to add menu item to a specific restaurant
* Description: Upon restaurant being chosen, a menu item is successfully add with its name and its price
* Tester: Nhan
* Date of Testing: 12/2/2016
* Status: Approved
* Comment: One bug was found during this test
  + Detail on the bug: a menu item with its name and/or price blank is accepted to the database
  + Fixed version: An error message will be given if the inputs are left blank
  + Date of Re-testing: 10/20/2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Condition*** | **Choosing Restaurant** | FALSE | FALSE | TRUE | TRUE |
| **Item's name** | Filled | Filled | Blank | Blank |
| **Item's price** | Valid | Invalid | Invalid | Valid |
| ***Action*** | **Item Added** | FALSE | FALSE | FALSE | TRUE |

### #4 Delete menu item

* Scenario: An administrator wants to add menu item in a specific restaurant
* Description: Unless the desired menu item for deletion is not exist, the delete feature will always be successfully
* Date of Testing: 10/19/2016
* Tester: Nhan
* Status: Approved
* Comment: A major bug was found during this test
  + Detail on the bug: The last menu item of a restaurant cannot be deleted
  + Fixed version: The menu item is deleted at the administrator’s will
  + Date of Re-testing: 10/21/2016

|  |  |  |  |
| --- | --- | --- | --- |
| ***Condition*** | **Chosen Item** | FALSE | TRUE |
| ***Action*** | **Deleted Item** | FALSE | TRUE |

### #5 Change the price of the menu item(s)

* Scenario: An administrator wants to change menu item’s price
* Description: A change in menu item is successful when valid the input number for changing is valid
* Tester: Nhan
* Date of Testing: 10/24/2016
* Status: Approved
* Comment: Two bug was found during the test
  + Detail on the bug:
    - Blank item price is accepted after the error message pops out
    - Typo (“Chagne”) on the prompt for changing the menu item’s price
  + Fixed version: The system will not accept blank input
  + Date of Re-testing: 10/24/2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Condition*** | **Input new price** | Blank | Invalid | Valid |
| ***Action*** | **Price changed** | FALSE | FALSE | TRUE |