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| **Test Case No.** | **Traces to Requirement No.** | **Test Steps** | **Expected Output** | **Comments** | **Pass/Fail** |
| 1 | 3.1.1 | 1. In the **Username** field, enter: **Customer01** 2. In the **Password** field, enter: **“ “** (A single space character) 3. Select **Login** | The customer will be successfully logged in and To Go and Dine In option buttons will be displayed |  | Pass |
| 2 | 3.1.2 | 1. In the **Username** field, enter: **waitStaff01** 2. In the **Password** field, enter: **Ruler** 3. Select **Login** | The wait staff will be successfully logged in and the home screen for the wait staff will be shown. |  | Pass |
| 3 | 3.1.3 | 1. In the **Username** field, enter: **KitchenStaff01** 2. In the **Password** field, enter: **Sea** 3. Select **Login** | The kitchen staff will be successfully logged in and the home screen for the kitchen staff will be shown. |  | Pass |
| 4 | 3.1.4 | 1. In the **Username** field, enter: **Manager** 2. In the **Password** field, enter: **Gift** 3. Select **Login** | The manager will be successfully logged in and the home screen for the manager will be shown. |  | Pass |
| 5 | 3.1 | 1. In the **Username** field, enter: **Customer01** 2. In the **Password** field, enter: **Gift** 3. Select **Login** | The user will not be able to not login, as the username and password are both wrong. An error message will be displayed. |  | Pass |
| 6 | 3.2 | 1. In the **Username** field, enter: **Customer01** 2. In the **Password** field, enter: **“ “** (A single space character) 3. Select **Login** | The device will be assigned to a specified table, as the Customer login that is specified is the assigned device. |  | Pass |
| 7 | 3.2,  3.21.2 | 1. Repeat all steps from requirement 3.1.4 2. Select **View Staff** | The manager will see a list of all current staff, including 24 Customers (tables) and 3 Waitstaff. |  | Pass |
| 8 | 3.3 | 1. Log in with username: **Manager** and password: **Gift** 2. Select **Login** 3. Select **Edit Staff** 4. Enter the name of the user listed in the staff document in the database, in the document name field. **Note:** Here if the document name chosen is already created the further fields will just update the document chosen. 5. Enter **Customer25** in the **Classification** field 6. Enter **25** in the **ID** field 7. Enter **tempCustomer** in the **Name** field 8. Enter **“ “ (a single space)** in the **Password** field | The staff name, position, user ID, and password. |  | Pass |
| 9 | 3.4 | 1. Open the **CulturedRestaurant** application 2. In the **Username** field, enter: **Manager** 3. In the **Password** field, enter: **Gift** 4. Select **Edit Menu** 5. Select **Appetizers** 6. Enter **App6** into the **Document Name** field 7. Enter **Gouda** into the **Name** field 8. Enter **Fresh gouda cheese** into the **Description** field 9. Enter **3** into the **Price** field 10. Enter **5** into the **Stock** field 11. Enter **200** into the **Calories** field 12. Enter **“ “ (A single space)** into the **Picture** field 13. Select **Confirm** | The menu will have been updated with a new menu item. |  | Pass |
| 10 | 3.5 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **To-Go** | The customer’s order will be designated as “To-Go”. |  | Pass |
| 11 | 3.6.1 | 1. Log in with username: **Customer08** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Requests** 5. Select **Submit refill request** | The wait staff will have a notification for a specific drink refill, sent by the customer. |  | Pass |
| 12 | 3.7.1 | 1. Log in with username: **Customer08** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Requests** 5. Select **Cracker refill** | The wait staff will have a notification for a cracker refill, sent by the customer. |  | Pass |
| 13 | 3.8 | 1. Log in with username: **Customer08** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Requests** 5. Select **Help** | The customer successfully receives help from the wait staff. |  | Pass |
| 14 | 3.9.1 | 1. The customer selects **Games** from the Home screen 2. The customer selects a game from 4 choices 3. The customer selects **Start** | The customer successfully plays a game. | 5 games are listed, and 3 works. | Pass |
| 15 | 3.10.1, 3.10.6, 3.10.7,  3.10.8 | 1. In the **Username** field, enter: **Customer01** 2. In the **Password** field, enter: “ “ (A single space character) 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Appetizers** | Customer sees a list of at least 3 appetizers with each appetizer having its own description, picture, and price. |  | Pass |
| 16 | 3.10.2, 3.10.6, 3.10.7,  3.10.8 | 1. In the **Username** field, enter: **Customer01** 2. In the **Password** field, enter: “ “ (A single space character) 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Entrees** | Customer sees a list of at least 3 entrees with each entree having its own description, picture, and price. |  | Pass |
| 17 | 3.10.3, 3.10.6,  3.10.7,  3.10.8 | 1. In the **Username** field, enter: **Customer01** 2. In the **Password** field, enter: “ “ (A single space character) 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Kids Entrees** | Customer sees a list of at least 3 kids’ entrees with each kids’ entree having its own description, picture, and price. |  | Pass |
| 18 | 3.10.4, 3.10.6, 3.10.7,  3.10.8 | 1. In the **Username** field, enter: **Customer01** 2. In the **Password** field, enter: “ “ (A single space character) 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Drinks** | Customer sees a list of at least 3 drinks with each drink having its own description, picture, and price. |  | Pass |
| 19 | 3.10.5, 3.10.6, 3.10.7,  3.10.8 | 1. In the **Username** field, enter: **Customer01** 2. In the **Password** field, enter: “ “ (A single space character) 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Desserts** | Customer sees a list of at least 3 desserts with each dessert having its own description, picture, and price. |  | Pass |
| 20 | 3.10.9 | 1. In the **Username** field, enter: **Customer01** 2. In the **Password** field, enter: “ “ (A single space character) 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Lactose Intolerant** | Customer sees an alternative menu, which is like the standard menu but contains only food items that apply to lactose-intolerant individuals. |  | Pass |
| 21 | 3.10.10 | 1. In the **Username** field, enter: **Customer01** 2. In the **Password** field, enter: “ “ (A single space character) 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Lactose Intolerant** 6. Select the **cart** icon next to **Almond Milk** | Customer’s cart will be updated with the selected item (Whole Milk), and the price of their order will update accordingly. |  | Pass |
| 22 | 3.10.11 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **View Cart** | Customer will see their cart in its current state. |  | Pass |
| 23 | 3.10.12 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Food Menu** 5. Select the back button, from the device | Customer will see the home screen of the system. |  | Pass |
| 24 | 3.10.13 | 1. Repeat all steps from requirement 3.1.1 (log in as a customer) 2. Select **Dine in** 3. Select **Food Menu** 4. Select **Specials** | Customer will see the current special of the day. |  | Pass |
| 25 | 3.11.1 | 1. An appetizer is out of stock 2. Repeat steps 1-3 from requirement 3.1.1 3. Select **Food Menu** 4. Select **Appetizers** | The customer can no longer add out of stock items to the cart. |  | Pass |
| 26 | 3.12.1 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Merchandise Menu** 5. Scroll down to **Wooden Cheese Tray** and select the cart button 6. Select the back button, from the device 7. Select **View Cart** | Customer will see the any items in the cart. |  | Pass |
| 27 | 3.12.2 | 1. Repeat steps 1-3 from requirement 3.1.1 2. Repeat steps 1-7 from requirement 3.12.1 | Customer will see the price of each item within the cart. |  | Pass |
| 28 | 3.12.3 | 1. Repeat steps 1-3 from requirement 3.1.1 2. Repeat steps 1-7 from requirement 3.12.1 | Customer will see the total cost of the items within the cart. |  | Pass |
| 29 | 3.12.4 | 1. Repeat steps 1-2 from requirement 3.12.1 2. Press the back button on your device 3. Select **Menu** | Customer will see the menu prior to choosing the food type to view. |  | Pass |
| 30 | 3.12.5 | 1. Repeat steps 1-3 from requirement 3.1.1 2. Repeat steps 1-7 of requirement 3.12.1 3. Select **Remove from cart**. | Customer will see the updated cart, which contains all items but the removed one. |  | Pass |
| 31 | 3.12.6 | 1. Repeat steps 1-3 from requirement 3.1.1 2. Repeat steps 1-7 of requirement 3.12.1 3. Select **Customize Order**. | Customer will see their comment added to their order in plain text. |  | Pass |
| 32 | 3.12.7 | 1. Repeat steps 1-3 from requirement 3.1.1 2. Repeat steps 1-7 of requirement 3.12.1 3. Select **Place Order**. | Customer will see a confirmation message that their order has been received. |  | Pass |
| 33 | 3.12.8 | 1. Repeat steps 1-3 from requirement 3.1.1 2. Repeat steps 1-6 of requirement 3.12.1 3. Select **Order Status** | Customer will see a status section detailing the progress of their order. |  | Pass |
| 34 | 3.12.9 | 1. Repeat steps 1-3 from requirement 3.1.1 2. Repeat steps 1-7 of requirement 3.12.1 3. Select the back button, from the device | Customer will see the home screen of the system. |  | Pass |
| 35 | 3.13.1 | 1. Repeat steps 1-3 from requirement 3.1.1 2. Repeat steps 1-6 of requirement 3.12.1 3. Select **Order Status** | The customer can view their order status. |  | Pass |
| 36 | 3.13.2 | 1. Repeat steps 1-3 from requirement 3.1.1 2. Repeat steps 1-6 of requirement 3.12.1 3. Select **Order Status** 4. Select the back button, from the device | The customer navigates back to the home screen from the view status window. |  | Pass |
| 37 | 3.14 | 1. Repeat steps 1-3 in requirement 3.1.1 2. Repeat all steps in requirement 3.12.7 3. Select the newly available **Play Games** button from the home menu 4. Select a game from the five options given 5. Play the game | The customer will be able to play a game from the five options given. |  | Pass |
| 38 | 3.14.1 | 1. Repeat all steps in requirement 3.14 2. While playing the game, press the back button on the device until you return to the **Home** menu. | The Customer will be returned to the game selection screen. |  | Pass |
| 39 | 3.14.2 | 1. Repeat steps 1-3 in requirement 3.14 2. Press the back button of the device until you have returned to the main menu. | The customer will be returned to the home screen. |  | Pass |
| 40 | 3.15.1 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Entrees** 6. Scroll down to **Fried Cheese Ravioli** and select the cart button. 7. Select the back button of the device twice. 8. Select **Pay** 9. Select **Pay with Cash** | Customer will see the total owed by them to the wait staff. |  | Pass |
| 41 | 3.15.2 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Entrees** 6. Scroll down to **Fried Cheese Ravioli** and select the cart button. 7. Select the back button of the device twice. 8. Select **Pay** 9. Select **Pay with Cash** 10. Enter **Janis Jonas** in the name of card field 11. Enter **4111111111111111** in the card number field 12. Enter **0720** in the expiry date on the field 13. Enter **563** in the CCV on the field 14. Select the check mark of the keyboard pad of the device 15. Select **Pay** | Customer will see the total owed by them to the system. |  | Pass |
| 42 | 3.15.3 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Entrees** 6. Scroll down to **Fried Cheese Ravioli** and select the cart button. 7. Select the back button of the device twice. 8. Select **Pay** 9. Enter **1234** in the Coupon Code text box 10. Select **Pay with Cash** | Customer will see the coupon take effect on the order. In this case, it will remove an appetizer. |  | Pass |
| 43 | 3.15.4 | 1. Repeat steps 1-8 from requirement 3.15.3 2. Enter “20” into the **Tip percentage** field 3. Select **Pay with Cash** | Customer will see the total of the order increased by 20%. |  | Pass |
| 44 | 3.15.5 | 1. Repeat steps 1-8 from requirement 3.15.3 2. Select **Number of People Paying** 3. Select **4** 4. Select **Pay with Cash** | Customer will see the cost of the order divided into four equal parts. |  | Pass |
| 45 | 3.15.6 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Entrees** 6. Scroll down to **Fried Cheese Ravioli** and select the cart button. 7. Select the back button of the device twice. 8. Select **Pay** 9. Select **Pay with Cash** 10. Select **Print Receipt** 11. Enter **Amazing testing** 12. Select **Send Feedback** | Customer will see a survey screen which asks them about their dining experience and offers them the chance to make comments. |  | Pass |
| 46 | 3.15.7 | 1. Repeat steps 1-8 from requirement 3.15.3 | Customer will see a text box giving them suggested tip amounts based on percentage of the cost of the bill 20%. |  | Pass |
| 47 | 3.15.8 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Food Menu** 5. Select **Entrees** 6. Scroll down to **Fried Cheese Ravioli** and select the cart button. 7. Select the back button of the device twice. 8. Select **Pay** 9. Enter **COMPED** in the Manager Comp Password text box 10. Select **Pay with Cash** | Customer will see the amount of revenue received from Order 01 update to $0.00. |  | Pass |
| 48 | 3.15.8.1 | 1. Log in with username: **Manager** and password: **Gift** 2. Select **Login** 3. Select **View Comps** | Manager will see the number of compensated orders per table, in a list. | List is not ordered by TableNumber. | Pass |
| 49 | 3.15.9 | 1. Open the **CulturedRestaurant** application 2. Log in with username: **Customer01** and password: " " 3. Select **Login** 4. Select **Dine in** 5. Select **Food Menu** 6. Select **Entrees** 7. Scroll down to **Fried Cheese Ravioli** and select the cart button. 8. Select the back button of the device twice. 9. Select **Pay** 10. Select **Pay with Cash** 11. Select **Print Receipt** 12. Enter **Amazing testing** 13. Select **Send Feedback** 14. Select the top box 15. Select **Home** | Customer will see a screen that tell them they did not win a coupon (see requirement 3.15.11 for a successful coupon game). |  | Pass |
| 50 | 3.15.10 | 1. Open the **CulturedRestaurant** application 2. Log in with username: **Customer01** and password: " " 3. Select **Login** 4. Select **Dine in** 5. Select **Food Menu** 6. Select **Entrees** 7. Scroll down to **Fried Cheese Ravioli** and select the cart button. 8. Select the back button of the device twice. 9. Select **Pay** 10. Select **Pay with Cash** 11. Select **Email Receipt** | Customer will see a confirmation message that the e-mail of the receipt has been sent. |  | Pass |
| 51 | 3.15.11 | 1. Repeat steps 1-14 from requirement 3.15.9 | Customer will see a screen that confirms they won, along with a numerical coupon code. |  | Pass |
| 52 | 3.16.1 | 1. Open the **CulturedRestaurant** application 2. Log in with username: **Customer08** and password: " " 3. Select **Login** 4. Select **Dine in** 5. Select **Requests** 6. Select **Help** 7. Return to login screen 8. Log in with username: **waitStaff01** and password: **Ruler** 9. Select **Login** 10. Select **View Requests** | The waitstaff will have a notification for help, sent by the customer. |  | Pass |
| 53 | 3.17 | 1. Repeat all steps in requirement 3.1.2 2. Select **View Orders** | The waitstaff will see a list of **Completed** orders. |  | Pass |
| 54 | 3.17.1 | 1. Log in with username: **waitStaff01** and password: **Ruler** 2. Select **Login** 3. Select **View Requests** | The wait staff will have a notification for a specific drink refill, sent by the customer. |  | Pass |
| 55 | 3.17.2 | 1. Repeat all steps in requirement 3.1.1 2. Repeat all steps in requirement 3.12.7 3. Repeat all steps in requirement 3.1.2 4. Select **View Orders** | The waitstaff will be able to view the status of the customer’s orders. | Orders listed here are “Completed” and ready to be delivered to customer. | Pass |
| 56 | 3.17.3 | 1. Repeat all steps in requirement 3.1.1 2. Repeat all steps in requirement 3.12.7 3. In the top-left, select the **Menu** 4. In the bottom of the opened menu, select **Log Off** 5. Repeat all steps in requirement 3.1.2 6. Select **View Payment Status** | The waitstaff will be able to view the payment status of the customer’s orders. |  | Fail |
| 57 | 3.18.1 | 1. Log in with username: **KitchenStaff01** and password: **Sea** 2. Select **Login** 3. Select **View Orders** | The Kitchen staff will see all the customers’ **Not Completed** orders. |  | Pass |
| 58 | 3.18.2 | 1. Repeat Test Requirement No. 3.1.3 2. There should be a list of orders on the screen of the device 3. Swipe the top entry horizontally across the screen. | The kitchen staff has updated the status of the order. |  | Pass |
| 59 | 3.19.1 | 1. Repeat steps 1-3 from requirement 3.1.4 2. Select **Sales** | Manager will see a list of items and the number of each sold. |  | Fail |
| 60 | 3.19.2 | 1. Log in with username: **Manager** and password: **Gift** 2. Select **Login** 3. Select **Split Tips** 4. Enter **25%** for **Walter** 5. Enter **50%** for **Wade** 6. Enter **25%** for **Wyatt** 7. Select **Apply** | Manager will see the percentages updated. |  | Pass |
| 61 | 3.19.3 | 1. Repeat steps 1-3 from requirement 3.1.4 2. Select **Edit Menu** 3. Select **Drinks** 4. Enter: **Drink1** into the **Document Name** field 5. Enter: **Whole Milk** into the **Name** field 6. Enter: **Delicious and nutritious, whole milk complements the dairy of other Cultured items naturally** into the **Description field** 7. Enter: **2.5** into the **Price** field 8. Enter: **10** into the **Stock** field 9. Enter: **250** into the **Calories** field 10. Enter: [**https://bit.ly/2ThoZ2T**](https://bit.ly/2ThoZ2T)into the **Picture** field 11. Select **Confirm** | The stock of **Whole Milk** will be updated to 10. | This will not be visible to the user, but the database will be correctly updated. | Pass |
| 62 | 3.19.4 | 1. Log in with username: **Manager** and password: **Gift** 2. Select **Login** 3. Select **Edit Staff** 4. Enter the name of the user listed in the staff document in the database, in the document name field. **Note:** Here if the document name chosen is already created the further fields will just update the document chosen. 5. Enter **Waitstaff** in the **Classification** field 6. Enter **1** in the **ID** field 7. Enter **Willy** in the **Name** field 8. Enter **Ruler** in the **Password** field 9. Select **Confirm** | Manager will see employee **Walter** update to **Willy**. |  | Pass |
| 63 | 3.19.5 | 1. Log in with username: **Manager** and password: **Gift** 2. Select **Login** 3. Select **Edit Staff** 4. Enter the name of the user listed in the staff document in the database, in the document name field. **Note:** Here if the document name chosen is already created the further fields will just update the document chosen. 5. Enter **Waitstaff** in the **Classification** field 6. Enter **1** in the **ID** field 7. Enter **“” (nothing)** in the **Name** field 8. Enter **Ruler** in the **Password** field 9. Select **Confirm** | Manager will see **Walter** removed from the employees list. |  | Pass |
| 64 | 3.20.1 | 1. In the **Username** field, enter: **Manager** 2. In the **Password** field, enter: **Gift** 3. Select **Edit Menu** 4. Select **Appetizers** 5. Enter **Appetizer01** into the **Document Name** field 6. Enter **Cheese Sticks** into the **Name** field 7. Enter **Fresh gouda cheese** into the **Description** field 8. Enter **3** into the **Price** field 9. Enter **5** into the **Stock** field 10. Enter **200** into the **Calories** field 11. Enter **“ “ (A single space)** into the **Picture** field 12. Select **Confirm** | The manager will have edited the appetizers price to $6.00. |  | Pass |
| 65 | 3.20.2 | 1. In the **Username** field, enter: **Manager** 2. In the **Password** field, enter: **Gift** 3. Select **Edit Menu** 4. Select **Appetizers** 5. Enter **Appetizer01** into the **Document Name** field 6. Enter **Cheese Rod** into the **Name** field 7. Enter **Fresh gouda cheese** into the **Description** field 8. Enter 4 into the **Price** field 9. Enter **5** into the **Stock** field 10. Enter **200** into the **Calories** field 11. Enter **“ “ (A single space)** into the **Picture** field 12. Select **Confirm** | The manager will see the new name for the menu item. |  | Pass |
| 66 | 3.20.3 | 1. 1. In the **Username** field, enter: **Manager** 2. In the **Password** field, enter: **Gift** 3. Select **Edit Menu** 4. Select **Appetizers** 5. Enter **Appetizer01** into the **Document Name** field 6. Enter **Cheese Sticks** into the **Name** field 7. Enter **Really super Fresh gouda cheese** into the **Description** field 8. Enter **3** into the **Price** field 9. Enter **5** into the **Stock** field 10. Enter **200** into the **Calories** field 11. Enter **“ “ (A single space)** into the **Picture** field 12. Select **Confirm** | The manager will see the new description for the menu item. |  | Pass |
| 67 | 3.21.1 | 1. Repeat 3.1.2 | The customer should not be able to log in as a waitstaff. |  | Pass |
| 68 | 3.21.2 | 1. In the **Username** field, enter: **KitchenStaff01** 2. In the **Password** field, enter: **Ruler** 3. Select **Login** | The waitstaff should not be able to log in as a kitchen staff. | The password is the one given to waitStaff01, as they would have their own password. However, they would not be able to log in as kitchen staff, which is displayed here. | Pass |
| 69 | 3.21.3 | 1. Repeat test requirement 3.1.4 | The kitchen staff should not be able to log in as a manager. |  | Pass |
| 70 | 3.21.4 | 1. Repeat test requirement 3.1.2 | The manager will be able to log in as a waitstaff staff. |  | Pass |
| 71 | 3.22.1 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Merchandise Menu** | The customer can now look at the merchandise purchase menu on the screen. |  | Pass |
| 72 | 3.22.2 | 1. Log in with username: **Customer01** and password: " " 2. Select **Login** 3. Select **Dine in** 4. Select **Merchandise Menu** 5. Scroll down to **Wooden Cheese Tray** and select the cart button | The merchandise the customer wants is now added to the cart. |  | Pass |