21HeffernaJN42

Testing

Computer Science NEA

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## Developmental Testing

You need to demonstrate your problem solving, what errors have you encountered and how did you solve them. Each error should have a print screen of the problem and one of the solution with some commentary.

**Error Message:**

Graphical user interface, application

Description automatically generated

**Code:**

Text

Description automatically generated with medium confidence

**Solution:**

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

**Commentary:**

As the variable ‘dateselected’ could not be accessed/altered from other classes, the system was not able to set it to true. In order to fix this, I set it as a global variable making it accessible throughout the program.

**Error Message:**

A picture containing timeline

Description automatically generated

**Code:**

Text

Description automatically generated

**Solution:**

Graphical user interface, application

Description automatically generated

Text

Description automatically generated

**Commentary:**

As you cannot use the currentitem.text on a list widget, I had to obtain the index of the selected item. Then I had to get the text of the item with the index obtained. Then I got the numerical value of the text, which is the number of guests.

**Error Message:**

Background pattern

Description automatically generated

**Code:**

A screenshot of a computer

Description automatically generated with medium confidence

**Solution:**

Text

Description automatically generated

**Commentary:**

As using date.today() as an argument causes the minimumDate feature to output an error saying there are too many arguments, I created a separate function which will store the value of the current date in a variable. Then, the system will execute the minimumDate features, etc. using the variable instead of the function.

**Error Message:**

**A picture containing text

Description automatically generated**

**Code:**

Text, letter

Description automatically generated

**Solution:**

**Text

Description automatically generated**

**Commentary:**

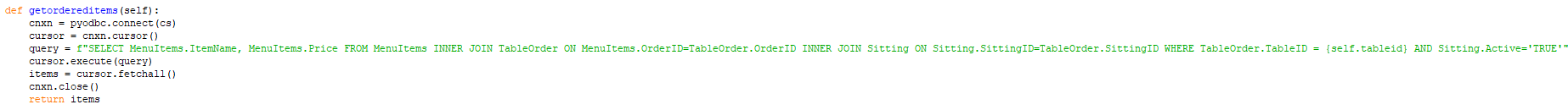
This error was caused during the initialisation as the UI was incorrectly stated. This caused the system to not be able to find the correct UI. This was fixed by correctly stating the UI.

**Error Message:**

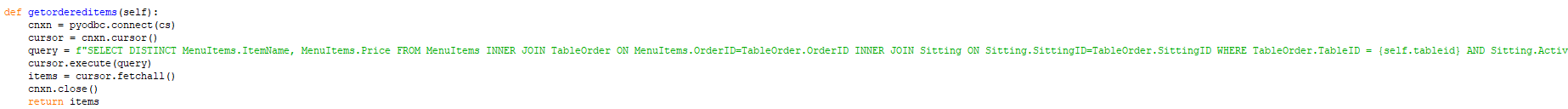
**A screenshot of a computer

Description automatically generated with medium confidence**

**Code:**



**Solution:**

****

**Commentary:**

This logical error outputs duplicates of items that were repeatedly ordered for a table while also increasing the quantity field. However, I fixed this issue by using the ‘distinct’ feature on SQL which allows users to select unique fields. This caused my program to remove the duplicates while only increasing the quantity.

**Error Message:**

**Graphical user interface, text, application

Description automatically generated**

**Code:**

Text

Description automatically generated

**Solution:**

**Graphical user interface

Description automatically generated**

**Graphical user interface, text

Description automatically generated**

**Commentary:**

As a row only has only space for 4 buttons, I used to modulus function to determine the staring position and divided I (counter in loop) by 4 to gain the y coordinate.

**Error Message:**

**Graphical user interface, table

Description automatically generated**

**Code:**

Text

Description automatically generated

**Solution:**

**Graphical user interface, application

Description automatically generated**

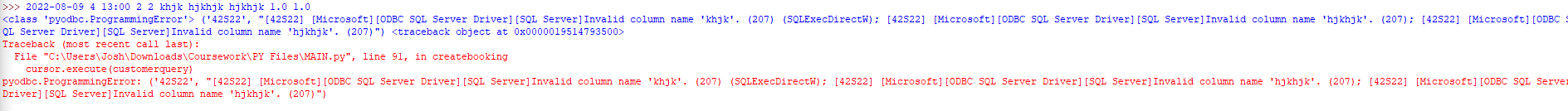
**Text

Description automatically generated**

**Commentary:**

The problem arose as once I selected the custom guest amount and deselected it, it allowed the user to proceed to the time selection without selecting a guest amount in the list widget. In order to fix this, I made a function that would run every time the checkbox is clicked. When the checkbox is clicked, it will determine whether it is selected or deselected. If it is deselected and the user has not selected a guest amount in the list widget, the time button will be disabled.

**Error Message:**



**Code:**

A picture containing text

Description automatically generated

**Solution:**



**Commentary:**

As the data being entered into the database was of string/varchar format, SQL could not interpret this as there was no identification that the values were string. This caused the error to occur. In order to fix this error, I put apostrophes which open and close the string values that are going to inputted.

## Testing

Use the testing table to fully test your system. You MUST include a wide range of tests, this includes valid, invalid, extreme and erroneous data. Every test that fails must have some commentary explaining how you will fix it.

**Login Page**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Function of keypad buttons | Valid | 1433 | 1433 will be registered as an input | 1433 was registered as an input | Login | 0:00 |
| Function of clear button on keypad | Valid | ‘Clear’ Push Button | The input entered by the user will clear | The input entered by the user was cleared | Login | 0:05 |
| Function of Confirm Button | Valid | ‘Confirm’ Push Button | The system will either give or deny access to the system | If the system denies access, an error message will appear. But if given access, the user can proceed. | Login | 0:04 |
| Input correct passcode (registered passcode) | Valid | 123 | The system will give access and the main page will appear, while closing the login page. | The main page appeared, while closing the login page. | Login | 0:35 |
| Input incorrect passcode (unregistered passcode) | Invalid | 1433 | The system will output error message ‘Incorrect Passcode Entered’ | An error message saying ‘Incorrect Passcode Entered’ appeared | Login | 0:00 |
| Input passcode exceeding maximum length (6 digits) | Invalid | 1234567 | The system will output error message ‘Please enter a valid passcode’ | An error message saying ‘Please enter a valid passcode’ appeared | Login | 0:14 |
| Input passcode left blank | Invalid | ‘ ‘ | The system will output error message ‘Please enter a valid passcode’ | The system will output error message ‘Please enter a valid passcode’ | Login | 0:22 |
| Input passcode with length 6 digits | Extreme | 123456 | The system will either give or deny access to the system depending on if passcode is registered | If the system denies access, an error message will appear. But if given access, the user can proceed. | Login | 0:28 |
| Input passcode with length 3 digits | Extreme | 123 | The system will either give or deny access to the system depending on if passcode is registered | If the system denies access, an error message will appear. But if given access, the user can proceed. | Login | 0:35 |

**Main Window**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Function of Taskbar buttons | Valid | ‘Bookings’ Push Button | The window will switch to the Booking main page | The window has switched its screen to the Booking Main Page | Main Window | 0:04 |
|  | Valid | ‘Calendar’ Push Button | The window will switch to the Calendar page | The window has switched its screen to the Calendar page where staff can view bookings | Main Window | 0:00 |
|  | Valid | ‘Seating’ Push Button | The window will switch to the Customer Seating Page | The window has switched its screen to the Seating page where staff can make orders for customers | Main Window | 0:01 |
|  | Valid | ‘Management’ Push Button | The window will switch to the Management Page | The window has switched to the management page where managers can make alterations to the system | Main Window | 0:02 |
|  | Valid | ‘Log Out’ Push Button | The Main window should close and open the Log in Window | The Main window closed, and the Log in Window has opened | Main Window | 0:05 |
| Different Access Levels on Management Button | Valid | User has logged in as a manager | The ‘Management’ Push Button should be enabled and able to press | The ‘Management’ Push Button is enabled and able to use | Main Window | 0:02 |
|  | Invalid | User has not logged in as a manager | The ‘Management’ Push Button should be disabled and not able to press | The ‘Management’ Push Button is disabled, and the user cannot press it | Main Window | 0:06 |

**Bookings Page/Subpages**

**Date Selection**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Function to select date | Valid | User clicks the date ‘11/03/2023’ on the calendar | The calendar will highlight the selected date and register that as the user’s input | The calendar has highlighted the selected date ‘11/02/2023’ and registered that as the user’s input | Date Selection | 0:00 |
|  | Valid | User clicks the date ‘11/03/2023’ on the calendar | The ‘Party Size’ Push Button in the taskbar should be enabled | As ‘11/02/2023’ is a valid input, the ‘Party Size’ Push Button is now enabled which allows the user to proceed to select the party size | Date Selection | 0:00 |
|  | Invalid | User clicks a date in the past on the calendar | The calendar will not allow a date in the past to be selected | The calendar did not allow the date in the past to be selected, therefore not registering it as an input | Date Selection | 0:06 |
|  | Valid | User tries to press the button on the Calendar to forward one month | The calendar will move forward one month | The calendar moved forward one month | Date Selection | 0:10 |
|  | Invalid | User tries to select a date one year in advance on the calendar | The calendar will not allow the date one year in the future to be selected | The calendar will not allow the user to select a date one year in advance, therefore not registering it as an input | Date Selection | 0:12 |
|  | Extreme | User selects date that it one day before exceeding one year in advance on the calendar | The calendar will allow the date to be selected | The calendar selected the date and registered it as an input | Date Selection | 0:17 |

**Party Size Selection**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Function to select Party Size | Valid | User selects the party size by selecting it in the List Widget | The List Widget will highlight the selected party size | The List Widget highlighted party size, therefore registering it as an input | Party Size Selection | 0:19 |
|  | Valid | User selects the party size by selecting it in the List Widget | The ‘Time’ Push Button in the taskbar should be enabled | The ‘Time’ Push Button is now enabled, as the input is valid, which allows the user to proceed to select the Time for the reservation | Party Size Selection | 0:19 |
| Function of ‘Custom Amount’ Checkbox when selecting Party Size | Valid | User clicks the ‘Custom Amount’ Checkbox | The checkbox will either deselect or select | The checkbox has either deselected or selected, depending on the previous state | Party Size Selection | 0:00 |
|  | Valid | User clicks the ‘Custom Amount’ Checkbox | The ‘Time’ Push Button in the taskbar should be enabled | The ‘Time’ Push Button is now enabled which allows the user to proceed to select the Time for the reservation | Party Size Selection | 0:00 |
|  | Invalid | User selects then deselects the checkbox without selecting a party size in the List Widget | The ’Time’ Push Button in the taskbar will be disabled | The ‘Time’ Push Button is disabled as no input has been registered | Party Size Selection | 0:02 |
| Function of ‘Custom Amount’ Spin Box | Invalid | User tries to select a value less than 9 on the Spin Box | The Spin Box will not allow the value to go below 9 | The Spin Box did not allow the value to go below 9, as the List widget is used to select values 1 to 8 | Party Size Selection | 0:13 |
|  | Invalid | User tries to select a value more than 20 on the Spin Box | The Spin Box will not allow the value to go above 20 | The Spin Box did not allow the value to go above 20, as the maximum party size is 20 guests | Party Size Selection | 0:05 |
|  | Extreme | User tries to select value 20 | The system will register this as a valid input and enable ‘Time’ Push Button | As the input is valid (on the limit), the system will accept this input and enable the ‘Time’ Push Button | Party Size Selection | 0:10 |
|  | Extreme | User tries to select value 9 | The system will register this as a valid input and enable ‘Time’ Push Button | As the input is valid (on the limit), the system will accept this input and enable the ‘Time’ Push Button | Party Size Selection | 0:16 |

**Time Selection**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Function to select Reservation Time | Valid | User selects the time by selecting it in the List Widget | The List Widget will highlight the selected Reservation Time | The List Widget highlighted Reservation Time, therefore registering it as the user’s input | Time Selection | 0:00 |
|  | Valid | User selects the time by selecting it in the List Widget | The ‘Table’ Push Button in the taskbar should be enabled | The ‘Table’ Push Button is now enabled, which allows the user to proceed to select the Table(s) for the reservation | Time Selection | 0:00 |

**Table Selection**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Function to assign correct table images | Valid | ‘Table’ Push Button is selected in the taskbar | Each group of tables (2, 4, 5, 8 seats) will be assigned a unique, identifiable image | Each group of tables were assigned images depending on their capacity | Table Selection | 0:00 |
| Function to Disable Unavailable tables | Valid | ‘Table’ Push Button is selected in the taskbar | All tables within 2 hours of the selected time will be disabled | All tables within 2 hours of the selected time are disabled to avoid double bookings, etc. | Table Selection | 0:00 |
|  | Invalid | User tries to select a table that is disabled | The system will not register this input | As the button is disabled, the system did not recognise this input, and therefore did not register this input | Table Selection | 0:07 |
| Function to select tables | Valid | User selects a table that corresponds to the party size that they have previously selected | The system will recognise this as the selected table(s) | The system stored the TableID of the selected table | Table Selection | 0:00 |
|  | Valid | User selects a table that corresponds to the party size that they have previously selected | The image of the selected table will change to a darkened version of the image to highlight the selected table(s) | The image of the selected table darkened to highlight that as selected | Table Selection | 0:00 |
|  | Valid | User selects a table that corresponds to the party size that they have previously selected | The ‘Guest’ Push Button in the taskbar should be enabled | The ‘Guest’ Push Button is now enabled, which means the user can now input the Customers Details | Table Selection | 0:00 |
|  | Invalid | User tries to select a table with less capacity than the party size (selected party size is <6) that was previously selected | The table will not be selected, and the system will disregard this input | The input was not registered | Table Selection | 0:12 |
|  | Valid | User tries to select multiple tables with less capacity than the party size (selected party size is >6) that was previously selected | The system will allow the user to select multiple tables until the sum of the capacity of the tables is similar to the party size of the reservation | The system stored the TableIDs of the multiple tables that have been selected | Table Selection | 0:30 |
|  | Invalid | User tries to select a table where its capacity is much higher than the selected party size | The system will not allow the table to be selected | The system will not select the table and will disregard this input | Table Selection | 0:14 |
|  | Extreme | User tries to select a table where its capacity is higher, but similar to the selected party size (e.g. party size 6 and table capacity 8) | The system will view this input as valid and allow the table to be selected | The system stores the TableID of the table(s) | Table Selection | 0:34 |
|  | Valid | After selecting a table, user goes back and alters the party size, time or date | The system will deselect all of the tables so that the user has to reselect the wanted tables again | The system deselected all tables to make user reselect the tables | Table Selection | 0:20 |

**Guest Details**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Reservation Details | Valid |  | Reservation details obtained previously will appear | Reservation details obtained previously appeared | Guest Details | 0:00 |
| First Name Validation | Valid | ‘Joshua’ | System will allow this input and proceed booking | The system has proceeded with booking | Guest Details | 2:01 |
|  | Invalid | ‘9878’ | Output error message ‘Please enter a valid first name’ | Outputted error message ‘Please enter a valid first name’ | Guest Details | 0:10 |
|  | Erroneous | ‘☺☻♥’ | Output error message ‘No Special Characters allowed’ | Outputted error message ‘No Special Characters allowed’ | Guest Details | 0:24 |
|  | Invalid | ‘ ‘ | Output Error message ‘Please enter the First Name’ | Outputted Error message ‘Please enter the First Name’ | Guest Details | 0:34 |
|  | Invalid | ‘jihdfjkhsdjkfhsd … asdf’ (over 64 characters) | Output Error Message ‘First Name exceeded maximum character length’ | Outputted Error Message ‘First Name exceeded maximum character length’ | Guest Details | 0:54 |
|  |  | ‘dfasdasda… dasd’ (64 characters) | System will allow this input and proceed booking | The system has proceeded with booking | Guest Details | 1:12 |
|  | Extreme | “Ka’May” | System will allow this input and proceed booking | The system has proceeded with booking | Guest Details | 1:29 |
| Last Name Validation | Valid | ‘Heffernan’ | System will allow this input and proceed booking | The system has proceeded with booking | Guest Details | 2:01 |
|  | Invalid | ‘9832734’ | Output error message ‘Please enter a valid last name’ | Outputted error message ‘Please enter a valid last name’ | Guest Details | 0:10 |
|  | Erroneous | ‘☺@@♥’ | Output error message ‘No Special Characters allowed’ | Outputted error message ‘No Special Characters allowed’ | Guest Details | 0:24 |
|  | Invalid | ‘ ‘ | Output Error message ‘Please enter the Last Name’ | Outputted Error message ‘Please enter the Last Name’ | Guest Details | 0:34 |
|  | Invalid | ‘dfasdasda… dasd’ (over 64 characters) | Output Error Message ‘Last Name exceeded maximum character length’ | Outputted Error Message ‘Last Name exceeded maximum character length’ | Guest Details | 0:54 |
|  |  | ‘dfasdasda… dasd’ (64 characters) | System will allow this input and proceed booking | The system has proceeded with booking | Guest Details | 1:12 |
|  | Extreme | “O’Neil” | System will allow this input and proceed booking | The system has proceeded with booking | Guest Details | 1:29 |
| Email Address Validation | Valid | ‘joshheff@collyers.ac.uk’ | System will allow this input and proceed booking | The system has proceeded with booking, storing this as the customer’s email | Guest Details | 2:01 |
|  | Invalid | ‘joshheffcollyers.ac.uk’ | Output error message ‘Incorrect Email Address Format Entered’ | Outputted error message ‘Incorrect Email Address Format Entered’ | Guest Details | 0:10 |
|  | Invalid | ‘joshheff@collyers’ | Output error message ‘Incorrect Email Address Format Entered’ | Outputted error message ‘Incorrect Email Address Format Entered’ | Guest Details | 0:34 |
|  | Invalid | ‘@collyers.ac.uk’ | Output error message ‘Incorrect Email Address Format Entered’ | Outputted error message ‘Incorrect Email Address Format Entered’ | Guest Details | 0:54 |
|  | Invalid | ‘joshheff@.ac.uk’ | Output error message ‘Incorrect Email Address Format Entered’ | Outputted error message ‘Incorrect Email Address Format Entered’ | Guest Details | 1:12 |
|  | Erroneous | ‘☺@@♥’ | Output error message ‘Incorrect Email Address Format Entered’ | Outputted error message ‘Incorrect Email Address Format Entered’ | Guest Details | 1:29 |
|  | Invalid | ‘ ‘ | Output Error Message ‘Please enter an Email Address’ | Outputted Error Message ‘Please enter an Email Address’ | Guest Details | 0:38 |
|  | Invalid | ‘joshheff@@collyers.ac.uk’ | Output error message ‘Incorrect Email Address Format Entered’ | Outputted error message ‘Incorrect Email Address Format Entered’ | Guest Details | 1:37 |
|  | Invalid | ‘joshheff@collyers..ac.uk’ | Output error message ‘Incorrect Email Address Format Entered’ | Outputted error message ‘Incorrect Email Address Format Entered’ | Guest Details | 1:42 |
| Function to Create Booking | Valid | ‘Joshua’  ‘Heffernan’  ‘joshheff@collyers.ac.uk’ | Booking Confirmation Screen will appear | Booking Confirmation Screen appeared | Guest Details | 2:01 |

**Calendar Page**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Function to Select Date | Valid | Select date ‘10/12/2022’ in the calendar widget | All reservations, if any, will be outputted into the table beside the calendar | The reservations for December 10th were outputted into the table | Calendar Page | 0:00 |
|  | Valid | Select date in the past in the calendar widget | All reservations, if any, will be outputted into the table beside the calendar | The reservations for the selected date were outputted into the table | Calendar Page | 0:03 |
|  | Invalid | User tries to select date more than one year into the future | The system will not allow the user to select a date one year into the future | The system did not allow the user to select the date, therefore disregarding the input | Calendar Page | 0:11 |
|  | Extreme | User tries to select date one day before one year into the future | All reservations, if any, will be outputted into the table beside the calendar | The reservations for the selected date were outputted into the table | Calendar Page | 0:18 |
|  | Valid | User tries to press the button on the Calendar to forward/backward one month | The calendar will move forward/backward one month | The calendar moved forward/backward one month | Calendar Page | 0:24 |

**Seating Page**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Function to Display Active Tables | Valid | ‘Seating’ Push Button in taskbar is pushed | All tables that are currently in use will have colour, while the others will be grey. | The tables currently in use have colour, while the inactive ones are grey | Seating Page | 0:00 |
| Function to Select Table | Valid | Select any Push Button representing a table | The order screen will appear | The order screen appeared, passing the TableID of the selected table | Seating Page | 0:04 |

**Order Window**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Toggle between Menu Categories | Valid | Press either Push Button ‘Starters’, ‘Mains’, ‘Desserts’, ‘Drinks’ | The screen will display the menu items depending on the category the user has chosen | The screen displayed the menu items of the category the user has chosen | Order Window | 0:00 |
| Exit Order Screen | Valid | ‘Exit’ Push Button is pressed | The screen will return to the Seating Page | The screen returned to the Seating Page | Order Window | 0:09 |
| Close Table | Valid | ‘Close Table’ Push Button is pressed | The screen will return to the Seating Page and set the previously selected table to ‘inactive’ | The screen returned to the Seating Page and previously selected table is colour grey | Order Window | 0:13 |
| Total Price | Valid | Select any Push Button representing a table in the Seating Page | The total amount due for the table is displayed in the corner | The Amount due for the table is displayed in the corner | Order Window | 0:12 |
| Function to make orders | Valid | Any Push Button representing a menu item is clicked | The selected menu item will be added onto the table as a new row | The selected menu item is added onto the table as a new row | Order Window | 0:05 |
|  | Valid | ‘Confirm’ Push Button is clicked | All new orders will be confirmed, and any duplicates of menu items will combine and increment the quantity column | All new orders are confirmed, and all duplicates of menu items were combined and while incrementing the quantity column | Order Window | 0:07 |
|  | Valid | User double clicks any menu item on the table widget, that has been ordered | A new window will appear which will allow the user to enter the quantity of the item | A new window appeared which allows the user to enter the quantity of the item | Change Quantity Window | 0:00 |

**Change Quantity Window**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Cancel Change Quantity | Valid | ‘Cancel’ Push Button is clicked | The window will close, and the screen will return to the order screen | The change quantity window closed and returned to the order screen | Change Quantity Window | 0:04 |
| Function to Change Quantity of Ordered Item | Valid | User selects a valid quantity in the spin box between 0 and 30 inclusive | The system will allow the user to use these values | The system registered the input as valid | Change Quantity Window | 0:11 |
|  | Invalid | User tries to select value less than 0 in the spin box | The Spin Box will not allow the user to select a value below 0 | The Spin Box did not allow the user to select a value below 0 | Change Quantity Window | 0:24 |
|  | Invalid | User tries to select value greater than 30 in the spin box | The Spin Box will not allow the user to select a value above 30 | The Spin Box will not allow the user to select a value above 30 | Change Quantity Window | 0:15 |
|  | Valid | ‘Change Quantity’ Push Button is clicked | As the Spin Box only allows valid inputs, the system will close the change quantity page and return to the order screen. | The system closed the change quantity page and returned to the order screen. A SQL query is run which updates the quantity of the ordered item | Change Quantity Window | 0:30 |
|  | Extreme | User tries to select value 0 in the spin box | The system will allow the user to use these values | The system registered the input as valid | Change Quantity Window | 0:26 |
|  | Extreme | User tries to select value 30 in the spin box | The system will allow the user to use these values | The system registered the input as valid | Change Quantity Window | 0:18 |

**Management Page**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Add Item | Valid | Add Item Button is clicked | The screen will show the Add Item screen | The Add item Screen appeared | Menu Management Window | 0:00 |
| Remove Item | Valid | Remove Item Button is clicked | The screen will show the Remove Item screen | The Remove Item Screen has showed | Menu Management Window | 0:03 |
| Alter item | Valid | Alter Item Button is clicked | The screen will show the Alter Item screen | The Alter Item Screen has showed | Menu Management Window | 0:07 |

**Add Item Window**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Exit Add Item Screen | Valid | Back Button is clicked | Screen will return to the management screen | Screen has returned to the management screen | Menu Management Window | 0:01 |
| Item Name Validation | Valid | ‘Olives’ | System will allow this input and proceed adding the menu item | The system has proceeded with adding the menu item | Add Item Window | 0:46 |
|  | Erroneous | ‘☺☻♥’ | Output error message ‘No Special Characters allowed’ | Outputted error message ‘No Special Characters allowed’ | Add Item Window | 0:03 |
|  | Invalid | ‘ ‘ | Output Error message ‘Please enter the Item Name’ | Outputted Error message ‘Please enter the Item Name’ | Add Item Window | 0:09 |
|  | Invalid | ‘dsfdsfdsfsdg … fdsaf’ (over 64 characters) | Output Error Message ‘Item Name exceeded maximum character length’ | Outputted Error Message ‘Item Name exceeded maximum character length’ | Add Item Window | 0:16 |
|  | Extreme | ‘Emilious… san’ (64 Characters) | System will allow this input and proceed adding the menu item | The system has proceeded with adding the menu item | Add Item Window | 0:46 |
| Category Validation | Valid | User has selected either ‘Starter’, ‘Main’, ‘Dessert’, or ‘Drink’ in the Combo Box | System will allow this input and proceed adding the menu item | System will allow this input and proceed adding the menu item | Add Item Window | 0:09 |
|  | Invalid | The user has left the Combo Box in the default selection (“Category:”) | Output Error message ‘Please select the Item Category’ | Outputted Error message ‘Please select the Item Category’ | Add Item Window | 0:03 |
| Item Price Validation | Valid | User has inputted a valid price | System will allow this input and proceed adding the menu item | The system has proceeded with adding the menu item | Add Item Window | 0:03 |
|  | Invalid | User has tried to input a value below £0 | The Spin Box will prevent the user from selecting a value below 0 | The Spin Box prevented the user from selecting a value below 0 | Add Item Window | 0:32 |
|  | Invalid | User has tried to input a value above £250 | The Spin Box will prevent the user from selecting a value above 250 | The Spin Box prevented the user from selecting a value above 250 | Add Item Window | 0:24 |
|  | Extreme | User has tried to input value £0 | System will allow this input and proceed adding the menu item | The system has proceeded with adding the menu item | Add Item Window | 0:46 |
|  | Extreme | User has tried to input value £250 | System will allow this input and proceed adding the menu item | The system has proceeded with adding the menu item | Add Item Window | 0:28 |
| Function to Add Menu Item | Valid | Confirm Button is clicked | A confirmation Window will appear with all of the item details | A confirmation Window appeared with all of the item details | Add Item Window | 0:46 |
|  | Valid | Cancel Button is clicked on the confirmation screen | The confirmation screen will close and return to the add item screen | The Confirmation screen has closed, and the screen has returned to the Add item screen | Add Item Window | 0:49 |
|  | Valid | Confirm Button is clicked on the Confirmation Screen | The confirmation screen will close and return to the Management Page | The menu item has been added to the system. The confirmation window has closed, and the screen has returned to the Management Page | Add Item Window | 0:54 |

**Remove Item Window**

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| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Exit Remove Item Screen | Valid | Back Button is clicked | Screen will return to the management screen | Screen has returned to the management screen | Menu Management Window | 0:04 |
| Function to Remove Menu Items | Valid | Menu Item in the table is clicked | The table will highlight the selected menu item | The Menu item is highlighted | Remove Item Window | 0:02 |
|  | Invalid | User has pressed Remove without selecting a Menu item in the table | Output Error Message ‘Please select an item to remove’ | Outputted Error Message ‘Please select an item to remove’ | Remove Item Window | 0:00 |
|  | Valid | User has pressed Remove | Confirmation window will appear asking the user if they want to remove the selected item | The confirmation window has appeared confirms with the user on their decision | Remove Item Window | 0:03 |
|  | Valid | Cancel Button is clicked on the Confirmation Screen | The Confirmation window will close, and the Remove Item page will appear | The Confirmation window has closed, and the Remove Item Window has appeared | Remove Item Window | 0:05 |
|  | Valid | Remove Item Button is clicked | The Confirmation window will close and return to the Management page. The system will remove the selected Menu item from the system. | The confirmation window has closed, and the system has returned to the Management Screen. The system has removed the selected item from the database. | Remove Item Window | 0:10 |

**Alter Item Window**

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| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Exit Alter Item Screen | Valid | Back Button is clicked | Screen will return to the management screen | Screen has returned to the management screen | Menu Management Window | 0:08 |
| Function to Alter Menu Item | Valid | Menu Item in the table is double clicked | A window will appear to allow the user to make alterations to the Menu Item | Window appeared which allows the user to make alterations | Alter Item Window | 0:01 |
| Function to pre-fill Menu Item Inputs | Valid | Menu Item in the table is double clicked | In the window that will appear, the system will auto-fill the input fields with the information of the menu item that was double clicked | The input field in the window are auto filled with the menu item that was double clicked | Alter Item Window | 0:02 |
| Function to make alterations to Menu Item (Item Name Validation) | Erroneous | ‘☺☻♥’ | Output error message ‘No Special Characters allowed’ | Outputted error message ‘No Special Characters allowed’ | Alter Item Window | 0:04 |
|  | Invalid | ‘dsfdsfdsfsdg … fdsaf’ (over 64 characters) | Output Error Message ‘Item Name exceeded maximum character length’ | Outputted Error Message ‘Item Name exceeded maximum character length’ | Alter Item Window | 0:13 |
|  | Invalid | ‘ ‘ | Output Error message ‘Please enter the Item Name’ | Outputted Error message ‘Please enter the Item Name’ | Alter Item Window | 0:07 |
|  | Extreme | ‘Georig… sagn’ (64 Characters) | System will allow this input and proceed altering the menu item | The system has proceeded with altering the menu item | Alter Item Window | 0:43 |
|  | Valid | ‘Hummus’ | System will allow this input and proceed altering the menu item | The system has proceeded with altering the menu item | Alter Item Window | 0:43 |
| Category Validation | Valid | User has selected either ‘Starter’, ‘Main’, ‘Dessert’, or ‘Drink’ in the Category Combo Box | System will allow this input and proceed altering the menu item | System will allow this input and proceed altering the menu item | Alter Item Window | 0:43 |
| Item Price Validation | Valid | User has inputted a valid price for the menu item | System will allow this input and proceed altering the menu item | The system has proceeded with altering the menu item | Alter Item Window | 0:07 |
|  | Invalid | User has tried to input a value below £0 | The Spin Box will prevent the user from selecting a value below 0 | The Spin Box prevented the user from selecting a value below 0 | Alter Item Window | 0:21 |
|  | Extreme | User has tried to input value £0 | System will allow this input and proceed altering the menu item | The system has proceeded with altering the menu item | Alter Item Window | 0:24 |
|  | Invalid | User has tried to input a value above £250 | The Spin Box will prevent the user from selecting a value above 250 | The Spin Box prevented the user from selecting a value above 250 | Alter Item Window | 0:28 |
|  | Extreme | User has tried to input value £250 | System will allow this input and proceed altering the menu item | The system has proceeded with altering the menu item | Alter Item Window | 0:26 |
| Close Confirmation Screen | Valid | Cancel Push Button is clicked | The confirmation window will close and return to the Alter Item Page | The Confirmation window has closed, and the system has returned to the Alter Item Page | Alter Item Window |  |
| Alteration Confirmed | Valid | Alter Item Push Button is clicked | The system will alter the selected item in the database, then the confirmation window will close and return to the Management Page | The system has altered the selected item, the confirmation window then closed and returned to the Management page | Alter Item Window | 0:43 |

**Remove Booking Window**

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| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Reservation is Double Clicked | Valid | Reservation in table is double clicked | A confirmation screen will appear which will ask the user to confirm their decision | A confirmation screen appeared | Remove Booking Window | 0:04 |
|  | Valid | Reservation in table is double clicked | The details of the reservation will appear on the confirmation screen | The reservation details appeared on the confirmation screen | Remove Booking Window | 0:04 |
| Confirmation Screen | Valid | ‘Cancel’ Push Button is clicked | The confirmation screen will close and return to the calendar page | The Confirmation Screen closed, leaving the calendar page open | Menu Management Window | 0:06 |
|  | Valid | ‘Remove Booking’ Push Button is clicked | The confirmation screen will close and return to the calendar page | The Confirmation Screen closed, leaving the calendar page open | Menu Management Window | 0:10 |
|  | Valid | ‘Remove Booking’ Push Button is clicked | The system will remove the reservation by running an SQL Query | The system removed the reservation by running an SQL Query, showed by the reservation table | Menu Management Window | 0:10 |

**Staff Page**

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| --- | --- | --- | --- | --- | --- | --- |
| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Function to alter staff details | Valid | ‘Confirm’ Push Button is clicked | The system will update the staff details, while updating the staff details table | The system updated the details and updated the staff details table | Staff Page | 0:54 |
|  | Invalid | ‘Confirm’ Push Button is clicked without selecting staff record in the table | Output Error Message ‘Please Select a User to alter’ | Outputted Error Message ‘Please Select a User to alter’ | Staff Page | 0:07 |
| Username (First Name) Validation | Invalid | ‘ ‘ | Output Error Message ‘Please Enter First Name’ | Outputted Error Message ‘Please Enter First Name’ | Staff Page | 0:12 |
|  | Invalid | ‘9876’ | Output Error Message ‘No Numbers Allowed’ | Outputted Error Message ‘No Numbers Allowed’ | Staff Page | 0:18 |
|  | Erroneous | ‘☺☻♥’ | Output Error Message ‘No Special Characters Allowed’ | Outputted Error Message ‘No Special Characters Allowed’ | Staff Page | 0:27 |
|  | Invalid | ‘dsfdsfdsfsdg … fdsaf’ (over 64 characters) | Output Error Message ‘Name exceeded maximum character length’ | Outputted Error Message ‘Name exceeded maximum character length’ | Staff Page | 0:39 |
|  | Extreme | ‘Emilious… san’ (64 Characters) | The system will allow this value to be inputted into the system | The system allowed this value to be inputted into the system | Staff Page | 0:54 |
|  | Valid | A suitable name has been inputted | The system will allow this value to be inputted into the system | The system allowed this value to be inputted into the system | Staff Page | 0:54 |
| Password Validation | Invalid | ‘ ‘ | Output Error Message ‘Please Enter a Password’ | Outputted Error Message ‘Please Enter a Password’ | Staff Page | 0:18 |
|  | Invalid | ‘1234567’ | Output Error Message ‘Maximum of 6 Digits Allowed’ | Outputted Error Message ‘Maximum of 6 Digits Allowed’ | Staff Page | 0:27 |
|  | Extreme | ‘123456’ / ’123’ | The system will allow this value to be inputted into the system | The system allowed this value to be inputted into the system | Staff Page | 0:39 |
| Manager Validation | Valid | Either ‘Yes’ or ‘No’ has been selected in the combo box | The system will allow this value to be inputted into the system | The system allowed this value to be inputted into the system | Staff Page | 0:54 |

**Statistics Page**

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| Test description | Test Type | Test Data | Expected Outcome | Actual Outcome | Video File | Time Stamp |
| Importing all Menu Items | Valid | ‘Statistics’ Push Button is clicked | All of the menu items will be displayed on a table, stating their name, number of orders, etc. | All of the menu items were displayed on a table, stating their name, number of orders, etc. | Statistics Page | 0:00 |
|  | Valid | Combo box is set to ‘Popularity (Ascending)’ | All the menu items in the table will be sorted in ascending order | All the menu items in the table were sorted into ascending order | Statistics Page | 0:02 |
|  | Valid | Combo box is set to ‘Popularity (Descending)’ | All the menu items in the table will be sorted in descending order | All the menu items in the table were sorted into descending order | Statistics Page | 0:08 |