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| Test Case ID | Unit to test | Assumption | Test Data | Steps to be Executed | Expected Result | Actual Result | Pass/Fail | Comments |
| 1.0 | Display menus of the restaurant to menu manager | 1. user is authorized | Menus with their respective date and menu items | Click the menus tab from the navigation bar | 3 tables of 3 categories with their respective menus and menu items and menu date | Results were as expected | pass |  |
| 1.1 | Delete Menu | 1. user is authorized  2. Restaurant should have menu | Menu of date 6/15/2020 | Click the trash icon of the menu of date 6/15/2020 | A modal pop up and asks for confirmation, modal pops down upon cancellation or deletes the menu upon confirmation | Results were as expected | Pass |  |
| 1.2.0 | Create Menu with valid date and menu items | 1. user is authorized | Menu date: 6/15/2020  Menu Items:  2 selected | 1. Click the plus icon on the breakfast category 2. enter menu date 3. Select 2 menu items 4. Click on save | A new menu is created with the fields as test data | Results were as expected | Pass |  |
| 1.2.1 | Create menu with valid date with no menu item | 1. user is authorized | Menu date: 6/15/2020 | 1. Click the plus icon on the breakfast category 2. enter menu date 3. Click on save | Error Message should show up that no menu items were selected | Results were as expected | Pass |  |
| 1.3.0 | Update menu with valid menu date and menu items | 1.user is authorized  2. there is existing menu to edit | Menu date:  6/15/2020 | 1. Click on the edit icon of the menu. 2. Enter menu date 3. Select and unselect menu items 4. Click update | The existing menu should be updated with test menu date and menu items | Results were as expected | Pass |  |
| 1.3.1 | Update menu without menu item | 1.user is authorized  2. there is existing menu to edit | Menu date:  6/15/2020 | 1. Click on the edit icon of the menu. 2. Enter menu date 3. Unselect menu items 4. Click on update | Error message pops up to show that no menu items were selected | Results were as expected | pass |  |
| 2.0 | Display Menu Items of the restaurant | 1.user should be authorized  2. Restaurant should have menu items |  | 1. Click on menu items tab | A page should display all the menu items that are there in the restaurant in table format.  It should have 9 columns including Name, picture, Default Ingredients, Other Ingredients, Description, Price, Quantity, Deliverability and Actions. | Results were as expected | Pass |  |
| 2.1.0 | Delete Menu Item | 1.user should be authorized  2. Restaurant should have menu items |  | 1. click on Menu Items tab 2. select the trash icon of an Item 3. click yes button on the modal | A pop up should ask for confirmation to delete the menu item. Upon the confirmation, that menu item should not be displayed in the table of menu items page | Results were as expected | Pass |  |
| 2.2.0 | Create menu Items with valid data | 1.user should be authorized | Item name=Sandwich  Item Description= Double bread with vegetable and cheese filling  Item price=7.00  Item quantity=6  Deliverable  Other Ingredient=onions, cheese, tomato, cucumber  Default ingredient=cheese  File=image.jpg | 1. Click on Menu Items tab 2. Click on the plus icon 3. Fill in the test data 4. Click save | A modal pop up upon clicking on the plus icon.  A successful message is displayed that menu item is added and new row is added in the menu item table. | Results were as expected | Pass |  |
| 2.2.1 | Create menu item with Invalid data | 1.user should be authorized | Item name=Sandwich  Item Description= Double bread with vegetable and cheese filling  Item price=-1  Item quantity=-1  Deliverable  Other Ingredient=onions, cheese, tomato, cucumber  Default ingredient=cheese  File=image.txt | 1. Click on Menu Items tab 2. Click on the plus icon 3. Fill in the test data   Click save | The item price and item quantity will ask for valid data  The image file will not be accepted as type txt, error message pops up | Results were as expected | Pass |  |
| 2.3.0 | Update menu item with valid data | 1.user should be authorized  2. Restaurant should have menu items | Item name=Sandwich  Item Description= Double bread with vegetable and cheese filling  Item price=7.00  Item quantity=6  Deliverable  Other Ingredient=onions, cheese, tomato, cucumber  Default ingredient=cheese  File=image.jpg | 1. Click on Menu Items tab 2. Click on the edit icon 3. Fill in the test data 4. Click update | A modal pop up upon clicking on the edit icon.  A successful message is displayed that menu item is updated and menu item row is updated with test data in the menu item table | Results were as expected | Pass |  |
| 2.3.1 | Update menu item with invalid data | 1.user should be authorized  2. Restaurant should have menu items | Item name=Sandwich  Item Description= Double bread with vegetable and cheese filling  Item price=-1  Item quantity=-1  Deliverable  Other Ingredient=onions, cheese, tomato, cucumber  Default ingredient=cheese  File=image.txt | 1. Click on Menu Items tab 2. Click on the edit icon 3. Fill in the test data   Click update | The item price and item quantity will ask for valid data  The image file will not be accepted as type txt, error message pops up | Results were as expected | Pass |  |
| 3.0 | Display item ingredients | 1. user is authorized  2. restaurant has the ingredients to display |  | 1. Click the ingredients tab | Ingredients page with all the ingredients of the restaurant in a table | Results were as expected | Pass |  |
| 3.1 | Delete item ingredient | 1. user is authorized  2. restaurant has the ingredients to delete | item | 1. click the trash icon   1. Click yes in the pop up to confirm | A modal pop up and asks for confirmation, modal pops down upon cancellation or deletes the menu upon confirmation | Results were as expected | Pass |  |
| 3.2.0 | Create an ingredient with valid data | 1. user is authorized | Ingredient name=egg  Ingredient price=2.00  Ingredient quantity=7  Ingredient type=protein | 1. Click the plus icon 2. Fill the data 3. Click save | Message of success pop up and ingredient is added at the bottom of the table | Results were as expected | Pass |  |
| 3.2.1 | Create ingredient with invalid data | 1. user is authorized | Ingredient name=egg  Ingredient price=2.00  Ingredient quantity=7  Ingredient type=null | 1. Click the plus icon 2. Fill the data 3. Click save | An error message pops up that ingredient type is not selected | Results were as expected | Pass |  |
| 3.3.0 | Update ingredient with valid data | 1. user is authorized  2. restaurant has the ingredients to update | Ingredient name=egg  Ingredient price=2.00  Ingredient quantity=7  Ingredient type=protein | 1. Click the edit icon 2. Fill the data 3. Click save | Message of success pop up and ingredient is update in the table | Results were as expected | Pass |  |
| 3.3.1 | Update ingredient with invalid data | 1. user is authorized  2. restaurant has the ingredients to update | Ingredient name=egg  Ingredient price=2.00  Ingredient quantity=-1  Ingredient type=null | 1. Click the edit icon 2. Fill the data 3. Click save | An error message pops up that ingredient type is not selected | Results were as expected | Pass |  |
| 4.0 | Display special menus | 1. user is authorized  2. restaurant has the special menus |  | 1. Click on the special menu from the navigation bar | A page should display list of special menus in a tabular format | Results were as expected | Pass |  |
| 4.1.0 | Create special menus with valid data | 1. user is authorized | Menu of date=6/17/2020  Description= this is demo  Menu price=8.00  Menu item=2 selected | 1. Click on the plus icon on the special menus page 2. Fill in the data 3. Click save | A pop-up form appears. A message is displayed upon filling and clicking save button  And a row is added on the special menu table with test data and success message is showed | Results were as expected | Pass |  |
| 4.1.1 | Create special menu with invalid data | 1. user is authorized | Menu of date=6/17/2020  Description= this is demo  Menu price=8.00  Menu item=0 selected | 1. Click on the plus icon on the special menus page 2. Fill in the data 3. Click save | A pop-up form appears. A message is displayed upon filling and clicking save button, an error message shows that menu items were not selected | Results were as expected | Pass |  |
| 4.2.0 | Update special menu with valid data | 1. user is authorized  2. restaurant has the special menus | Menu of date=6/17/2020  Description= this is demo  Menu price=8.00  Menu item=2 selected | 1. Click on the edit icon on the special menus page from row 2. Fill in the data 3. Click update | A success message should show that menu was updated successfully, and data were updated in the table as well | Results were as expected | Pass |  |
| 4.2.1 | Update special menu with invalid data | 1. user is authorized  2. restaurant has the special menus | Menu of date=6/17/2020  Description= this is demo  Menu price=8.00  Menu item=0 selected | 1. Click on the edit icon on the special menus page from row 2. Fill in the data 3. Click update | A error message pops up that menu item were not selected | Results were as expected | Pass |  |
| 4.3.0 | Delete special menu | 1. user is authorized  2. restaurant has the special menus |  | 1. Click on the trash icon on any row of the table | A success message pop up that menu was deleted successfully and chosen row is removed from the table | Results were as expected | Pass |  |
| 5.0 | Display recipes | 1. user is authorized |  | 1. Click on the recipes tab from the navigation bar | A page is displayed with all the recipes and associated menu items. | Results were as expected | Pass |  |
| 5.1 | Update or create recipes with valid data | 1. user is authorized  2. restaurant have menu items | Item name=pancake  Recipe= this is demo recipe | 1. Click on the edit icon 2. Fill in the data 3. Click update | Recipes is updated with the test data and success message pop up | Results were as expected | Pass |  |
| 5.1.1 | Update or create recipes with invalid data | 1. user is authorized  2. restaurant have menu items | Item name=”\_”  Recipe= “\_” | 1. Click on the edit icon 2. Fill in the data 3. Click update | Form may not submit unit the fields are not empty | Results were as expected | Pass |  |