**Acceptance Tests**

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| checkOptions | Precondition: Run CoffeeMaker  Return to main menu. | Display menu with menu options waiting for user input. |  |
| addRecipe1 | Precondition: Run CoffeeMaker  Enter: Menu option 1, "Add a recipe " Name: Coffee Price: 50 Coffee: 3 Milk: 1 Sugar: 1 Chocolate: 0 Return to main menu. | Coffee successfully added. | Coffee successfully added. |
| addRecipe2 | Precondition: Run CoffeeMaker, and have addRecipe1 run successfully.  Enter: Menu option 1, “Add a recipe”  Name: Coffee  Price: 50  Coffee: 3  Milk: 1  Sugar: 1  Chocolate: 0  Return to main menu | Coffee should not be added successfully because Coffee is already registered as a recipe. Thus, a status message should be printed and user is returned to main menu | Coffee was not added successfully. Status message displayed and user returned to main menu. |
| addRecipe3 | Precondition: Run CoffeeMaker  Enter: Menu option 1, “Add a recipe”  Name: Coffee  Price: -1  Coffee: 3  Milk: 1  Sugar: 1  Chocolate: 0  Return to main menu | Coffee should not be added successfully because price is -1. User is returned to main menu. | Coffee is not added successfully, and user is returned to main menu. |
| addRecipe4a | Precondition: Run CoffeeMaker  Enter: Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: -3  Milk: 1  Sugar: 1  Chocolate: 0  Return to main menu | Coffee should not be added successfully because amount of coffee is -3. User is returned to main menu. | Coffee is not added successfully, and user is returned to main menu. |
| addRecipe4b | Precondition: Run CoffeeMaker  Enter: Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 3  Milk: -1  Sugar: 1  Chocolate: 0  Return to main menu | Coffee should not be added successfully because amount of milk is -1. User is returned to main menu. | Coffee is not added successfully, and user is returned to main menu. |
| addRecipe4c | Precondition: Run CoffeeMaker  Enter: Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 3  Milk: 1  Sugar: -1  Chocolate: 0  Return to main menu | Coffee should not be added successfully because amount of sugar is -1. User is returned to main menu. | Coffee is not added successfully, and user is returned to main menu. |
| addRecipe4d | Precondition: Run CoffeeMaker  Enter: Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 3  Milk: 1  Sugar: 1  Chocolate: -1  Return to main menu | Coffee should not be added successfully because amount of chocolate is -1. User is returned to main menu. | Coffee is not added successfully, and user is returned to main menu. |
| addRecipe5 | Precondition: Run CoffeeMaker, add 4 recipes without the same name to the machine successfully.  Enter: Menu Option 1, “Add a recipe”  Name: Coffee5  Price: 1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Coffee 5 should not be added because the machine is full. A status message should appear and the user should be returned to the main menu. | Coffee 5 was not added and the user was returned to the main menu. |
| deleteRecipe1 | Precondition: addRecipe has run successfully Enter: Menu option 2, "Delete a recipe " Select: Coffee Return to main menu. | Successfully deleted | Coffee successfully deleted. |
| deleteRecipe2 | Precondition: Run CoffeeMaker  Enter: Menu option 2, “Delete a recipe”  Select: null  Return to main menu | Null should not be able to be deleted. Status message appears and user retuned to main menu. | Null was not deleted indicated via status message, and the user was returned to main menu |
| editRecipe1 | Precondition: addRecipe1 has run successfully  Enter: Menu option 3, "Edit a recipe " Select: Coffee  Price: 50 Coffee: 3 Milk: 1 Sugar: 1 Chocolate: 0  Return to main menu. | Coffee successfully added. | Coffee successfully edited. |
| editRecipe2 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Select: Null  Name: Coffee  Price: 50  Coffee: 3  Milk: 1  Sugar: 1  Chocolate: 0  Return to main menu | Null should not be able to be edited and status message appears. | Null was not edited and status message appeared. |
| editRecipe3 | Precondition: Run CoffeeMaker, addRecipe1 successful  Enter: Menu option 3, “Edit a recipe”  Select: Coffee  Name: Milk  Price: -1  Coffee: 0  Milk: 20  Sugar: 0  Chocolate: 0  Return to main menu | Milk should not be added because price is a negative number | Coffee was not edited because milks price was -1. |
| editRecipe4 | Precondition: Run CoffeeMaker and add 4 recipes with different names. (EX: Coffee, Coffee2, Coffee3, Coffee4.)  Enter: Menu option 3, “Edit a recipe”  Select: Coffee2  Name: Coffee3  Price: 1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Coffee2 should not be editable because Coffee3 already exists. Status message should appear and user returned to main menu | Cofee2 was not edited and Status message appeared and user was returned to main menu. |
| addInventory1 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Return to main menu. | Return to main menu |
| addInventory2 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: -1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory3 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: -1  Chocolate: 1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory4 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: -1  Chocolate: -1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory5 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: -1  Sugar: 1  Chocolate: 1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory6 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: -1  Sugar: 1  Chocolate: -1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory7 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: -1  Sugar: -1  Chocolate: 1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory8 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: -1  Sugar: -1  Chocolate: -1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory9 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: -1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory10 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: -1  Milk: 1  Sugar: 1  Chocolate: -1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory11 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: -1  Milk: 1  Sugar: -1  Chocolate: 1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory12 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: -1  Milk: 1  Sugar: -1  Chocolate: -1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory13 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: -1  Milk: -1  Sugar: 1  Chocolate: 1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory14 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: -1  Milk: -1  Sugar: 1  Chocolate: -1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory15 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: -1  Milk: -1  Sugar: -1  Chocolate: 1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| addInventory16 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: -1  Milk: -1  Sugar: -1  Chocolate: -1  Return to main menu | Inventory is not added successfully and return to main menu. | Inventory is not added successfully and return to main menu. |
| checkInventory | Precondition: Run CoffeeMaker  Enter: Menu option 5, “Check Inventory” | Return to main menu | Return to main menu |
| purchaseBeverage1 | Precondition: addRecipe has run successfully.  Enter: Menu option 6, “Make Coffee”  Select: Coffee  Amount: 50  Return to main menu | Display change (0), and return to menu. | Display change, and return to main menu. |
| purchaseBeverage2 | Precondition: addRecipe has run successfully.  Enter: Menu option 6, “Make Coffee”  Select: Coffee  Amount: 40  Return to main menu | Should not be able to make purchase, status should return change equal to 40 and then revert to main menu. | Could not purchase coffee. Status message appeared and change was the value that was inputted (40) and was redirected to main menu. |
| purchaseBeverage3 | Precondition: addRecipe with name coffee, and parameters for coffee, milk, sugar, and chocolate are 50. (add has to be successful).  Enter: Menu option 6, “Make Coffee”  Select: Coffee  Amount: 50  Return to main menu | Should not be able to make purchase, status should return change equal t 50 and then return the main menu | Could not purchase coffee. Status message appeared and change was value that was inputted (50), then was redirected to main menu. |