**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. |  |
| addRecipe | 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. |
| addRecipe1 | Precondition: Add three recipes with different names to the system.  Enter: Menu option 1, “Add a recipe”  Name: Coffee4  Price: 10  Coffee: 4  Milk: 2  Sugar: 2  Chocolate: 0  Return to main menu. | Return to main menu | Coffee successfully added. |
| addRecipe2a | Precondition: Run CoffeeMaker  Enter: Menu option 1, “Add a recipe”  Name: Coffee  Price: q  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Status message printed and returned to main menu |
| addRecipe2b | Precondition: Run Coffeemaker  Enter: Menu option 1, “Add a recipe”  Name: Coffee  Price: 2.50  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Status message printed and returned to main menu |
| addRecipe3a1 | Precondition: Run CoffeeMaker  Enter: Menu option 1, “Add a recipe”  Name: Coffee  Price: 3  Coffee: q  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Status message printed and returned to main menu |
| addRecipe3a2 | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 2.50  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Status message printed and returned to main menu |
| addRecipe3b1 | Precondition: Run CoffeeMaker  Enter: Menu option 1, “Add a recipe”  Name: Coffee  Price: 3  Coffee: 1  Milk: q  Sugar: 1  Chocolate: 0  Return to main menu | Status message printed and returned to main menu | Status message printed and returned to main menu |
| addRecipe3b2 | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 1  Milk: 2.50  Sugar: 1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Status message printed and returned to main menu |
| addRecipe3c1 | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: 3  Coffee:1  Milk: 1  Sugar: q  Chocolate: 0  Return to main menu | Status message printed and returned to main menu | Status message printed and returned to main menu |
| addRecipe3c2 | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: 2.50  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Status message printed and returned to main menu |
| addRecipe3d1 | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: q  Return to main menu | Status message printed and returned to main menu | Status message printed and returned to main menu |
| addRecipe3d2 | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 2.50  Return to main menu | Status message printed and returned to main menu | Status message printed and returned to main menu |
| addRecipe4a | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: -1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Returned to main menu |
| addRecipe4b | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: -1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Returned to main menu |
| AddRecipe4c | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 1  Milk: -1  Sugar: 1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Returned to main menu |
| addRecipe4d | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: -1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Returned to main menu |
| addRecipe4e | Precondition: Run CoffeeMaker  Enter Menu option 1, “Add a recipe”  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: -1  Return to main menu | Status message printed and returned to main menu | Returned to main menu |
| addRecipe5 | Precondition: AddRecipe1  Enter Menu option 1, “Add a recipe”  Name: (“Same name as entered in precondition”)  Price: 1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Recipe cannot be added and returned to main menu. | Recipe cannot be added and returned to main menu |
| deleteRecipe | Precondition: addRecipe has run successfully Enter: Menu option 2, "Delete a recipe " Select: Coffee Return to main menu. | Successfully deleted | Coffee successfully deleted. |
| deleteRecipe1 | Precondition: Run CofffeeMaker  Enter: Menu option 2, “Delete a recipe”  Select: 5  Return to main menu | Return to main menu | ArrayIndexOutOfBoundsException |
| deleteRecipe2 | Precondition: Run CoffeeMaker  Enter: Menu option 2, “Delete a recipe”  Select: a  Return to main menu | Return to main menu | Status message and returned to main menu. |
| deleteRecipe3 | Precondition: Run CoffeeMaker  Enter: Menu option 2, “Delete a recipe”  Select: a null recipe  Return to main menu | Return to main menu. | Status message and returned to main menu. |
| editRecipe | 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. |
| editRecipe1 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 5 | Return to main menu. | ArrayIndexOutOfBoundsException |
| editRecipe2 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: a  Return to main menu | Return to main menu. | Status message and return to main menu. |
| editRecipe3a | Preconditoin: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 2.50  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Status message and return to main menu. |
| editRecipe3b | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: a  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message printed and returned to main menu | Status message and return to main menu. |
| editRecipe4a1 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: 2.50  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message and return to main menu. | Status message and return to main menu. |
| editRecipe4a2 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: a  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message and return to main menu. | Status message and return to main menu. |
| editRecipe4b1 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: 1  Milk: 2.50  Sugar: 1  Chocolate: 1  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe4b2 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: 1  Milk: a  Sugar: 1  Chocolate: 1  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe4c1 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: a  Chocolate: 1  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe4c2 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: 2.50  Chocolate: 1  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe4d1 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 2.50  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe4d2 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: a  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe5a | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: -1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe5b | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: -1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe5c | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: 1  Milk: -1  Sugar: 1  Chocolate: 1  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe5d | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: -1  Chocolate: 1  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe5e | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number: 1  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: -1  Return to main menu | Status message and return to main menu | Status message and return to main menu. |
| editRecipe6 | Precondition: Run CoffeeMaker  Enter: Menu option 3, “Edit a recipe”  Number:  Name: Coffee  Price: 1  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Returned to main menu | Null successfully added, return to main menu |
| addInventory | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Status message and return to main menu. | Return to main menu |
| addInvnetory1a1 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: -1  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Reprompted for amount. | Return to main menu |
| addInventory1a2 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 2.50  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Reprompted for amount. | Status message and returned to main menu |
| addInventory1b1 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: -1  Sugar: 1  Chocolate: 1  Return to main menu | Reprompted for amount. | Return to main menu |
| addInventory1b2 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 2.50  Sugar: 1  Chocolate: 1  Return to main menu | Reprompted for amount. | Status message and returned to main menu |
| addInventory1c1 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: -1  Chocolate: 1  Return to main menu | Reprompted for amount. | Return to main menu |
| addInventory1c2 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: 2.50  Chocolate: 1  Return to main menu | Reprompted for amount. | Status message and returned to main menu |
| addInventory1d1 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: -1  Return to main menu | Reprompted for amount. | Returned to main menu |
| addInventory1d2 | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: 2.50  Return to main menu | Reprompted for amount. | Status message and returned to main menu |
| addInventory2a | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: a  Milk: 1  Sugar: 1  Chocolate: 1  Return to main menu | Reprompted for amount. | Status message and returned to main menu |
| addInventory2b | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: a  Sugar: 1  Chocolate: 1  Return to main menu | Reprompted for amount. | Status message and returned to main menu |
| addInventory2c | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: a  Chocolate: 1  Return to main menu | Reprompted for amount. | Status message and returned to main menu |
| addInventory2d | Precondition: Run CoffeeMaker  Enter: Menu option 4, “Add Inventory”  Coffee: 1  Milk: 1  Sugar: 1  Chocolate: a  Return to main menu | Reprompted for amount. | Status message and returned to main menu |
| checkInventory | Precondition: Run CoffeeMaker  Enter: Menu option 5, “Check Inventory” | Return to main menu | Return to main menu |
| purchaseBeverage | Precondition: addRecipe has run successfully.  Enter: Menu option 6, “Make Coffee”  Number: 1  Amount: 1  Return to main menu | Display change, and return to menu. | Display change, and return to main menu. |
| purchaseBeverage1 | Precondition: addRecipe successful, with more ingredients in it than inventory.  Enter: Menu option 5, “Make Coffee”  Number: 1  Amount: 1  Return to main menu | Display message that not enough inventory, return users money, and return to main menu. | Display change and return to main menu. |
| purchaseBeverage2 | Precondition: addRecipe successful  Enter: Menu option 5, “Make Coffee”  Number: 1  Amount: Less than price of beverage  Return to main menu | Money returned, and returned to main menu. | Return change, and return to main menu. |