**Title:** Purchase a beverage

**Primary actor:** Purchaser

**Preconditions:**

* The machine is operational.
* Inventory records are up to date.

**Success scenario:**

1. The machine displays the menu of available items.
2. The user selects an item from the menu.
3. The machine prompts the user to choose a payment method.
4. The user selects a payment method.
5. If paying by cash, the user inserts the required amount; if paying by card, the user completes the card transaction.
6. The machine verifies the payment.
7. The machine dispenses the selected item.
8. The machine updates the inventory records.

**Extensions:**

2a. If the selected item is unavailable, the machine displays a message and prompts the user to choose a different item.

5a. If insufficient cash is inserted, the machine prompts the user to insert more cash; if the card payment fails, the machine displays an error and allows the user to retry or choose another payment method.

**Title:** Collect cash from the machine

**Primary actor:** Cash collector (Maintenance staff)

**Preconditions:**

* The machine has accumulated cash that needs collection.
* The cash collector has the necessary authorization.

**Success Scenario:**

1. The cash collector logs into the machine using an authorized key or card.
2. The machine verifies the cash collector's authorization.
3. The machine displays the amount of cash available for collection.
4. The cash collector opens the cash compartment.
5. The cash collector removes the cash.
6. The machine updates the cash records to reflect the removal.
7. The cash collector closes and locks the cash compartment.

**Extensions:**

2a. If the authorization fails, the machine denies access and logs the failed attempt.  
5a. If there is an issue with the cash compartment, the machine displays an error message and prompts for maintenance.

**Title:** Replenishment of stock

**Primary actor:** Refiller (Maintenance staff)

**Preconditions:**

* The coffee machine must be operational.
* The refiller has the necessary authorization.

**Success scenario:**

1. The refiller logs into the machine using an authorized key or card.
2. The machine verifies the refiller's authorization.
3. The machine displays the current inventory status.
4. The refiller selects the resource to be refilled.
5. The refiller opens the respective compartment.
6. The refiller adds the required resource.
7. The machine updates the inventory records.
8. The refiller closes the compartment.

**Extensions:**

2a. If the authorization fails, the machine denies access and logs the failed attempt.  
5a. If there is an issue with the compartment, the machine displays an error message and prompts for maintenance.

**Title:** Perform maintenance

**Primary actor:** Repair man (Maintenance staff)

**Preconditions:**

* The coffee machine must be operational.
* The maintenance has the necessary authorization.

**Success scenario:**

1. The maintenance staff logs into the machine using an authorized key or card.
2. The machine verifies the maintenance staff's authorization.
3. The machine displays the maintenance tasks available.
4. The maintenance staff selects the task to be performed.
5. The staff follows the on-screen instructions to complete the task.
6. The machine verifies that the task was successfully completed.

**Extensions:**

2a. If the authorization fails, the machine denies access and logs the failed attempt. 5a. If there is an issue completing the task, the machine displays an error message and provides troubleshooting instructions.