Use Case ID:1

Use Case Name: Withdraw Cash from an ATM

Primary Actor: Customer

Stakeholders and Interests:

- Customer: The primary actor who wants to access and withdraw cash from their bank account convenie ntly.
- Bank: Interested in providing secure and efficient cash withdrawal services to customers.
- ATM Service Provider: Responsible for maintaining and servicing the ATM machines.
- Regulatory Authorities: Interested in ensuring that ATM transactions comply with financial regulations and are secure.

Preconditions:

- The customer possesses a valid and active bank account with an associated ATM card.
- The ATM machine is operational and connected to the bank's network.
- Sufficient funds are available in the customer's bank account.

Main Success Scenario:

- 1. The customer approaches the ATM machine.
- 2. The customer inserts their ATM card into the card reader.
- 3. The ATM prompts the customer to enter their Personal Identification Number (PIN).
- 4. The customer enters the correct PIN.
- 5. The ATM validates the PIN and displays a menu of transaction options, including cash withdrawal.
- 6. The customer selects the "Withdraw Cash" option.
- 7. The ATM prompts the customer to enter the desired withdrawal amount.
- 8. The customer enters the amount.
- 9. The ATM validates the withdrawal amount and checks the customer's account balance.
- 10. If the account balance is sufficient for the requested withdrawal, the ATM dispenses the requested am ount in cash. If not, an error message is displayed.
- 11. The ATM issues a receipt with details of the transaction, including the withdrawal amount, account bal ance, and a transaction ID.
- 12. The customer retrieves the cash and the receipt.
- 13. The customer removes their ATM card.
- 14. The ATM returns to the main menu.

Postconditions:

- The customer has withdrawn the requested amount of cash.
- The ATM has issued a receipt for the transaction.
- The customer's account balance is updated to reflect the withdrawal.

Alternative Scenarios:

- 1. If the customer enters an incorrect PIN three times, the ATM retains the card, and the customer must contact the bank for card retrieval and reactivation.
- 2. If there is a network or connectivity issue, the ATM displays an error message, and the transaction can not proceed.
- 3. If the customer's account balance is insufficient for the requested withdrawal, the ATM displays an error message and does not dispense cash.

Use Case ID:1

Use Case Name: Heat Food Using a Microwave Oven

Primary Actor: User

Stakeholders and Interests:

- User: Interested in quickly and effectively heating food in a microwave oven.
- Food Safety Authorities: Interested in ensuring that food is heated safely to prevent health risks.
- Microwave Oven Manufacturers: Concerned with providing reliable and user-friendly microwave ovens.
- Appliance Repair Services: Involved in maintaining and repairing microwave ovens.

Preconditions:

- The microwave oven is plugged in and operational.
- The user has placed food in a microwave-safe container.

Main Success Scenario:

- 1. The user opens the microwave oven door.
- 2. The user places the food in the microwave and closes the door securely.
- 3. The user sets the desired heating time and power level using the microwave oven's control panel.
- 4. The user starts the microwave oven.
- 5. The microwave oven emits microwaves to heat the food based on the user's settings.
- 6. Once the timer reaches zero, the microwave oven beeps to signal that heating is complete.
- 7. The user opens the microwave oven door, removes the heated food, and closes the door.

Postconditions:

- The user has successfully heated their food to the desired temperature.

- The microwave oven is ready for future use.

Alternative Scenarios:

- 1. If the user sets an incorrect heating time or power level, the food may be undercooked or overcooked. The user may need to reheat the food if necessary.
- 2. If there is a malfunction in the microwave oven, such as a blown fuse or a defective component, the he ating process may be disrupted, and the microwave oven may need to be repaired.
- 3. In the case of food safety concerns, the user should ensure that the food is heated to a safe temperatur e to prevent foodborne illnesses.