## **Use Case Narration 1: Deposit Items**

**Use case Name:** Deposit Items

Actors: Customer, Recycling Machine

**Goal:** To deposit returnable bottles or cans for recycling.

**Preconditions:** Machine is powered on and ready to accept items.

**Post conditions:** Items are recorded, and receipt is generated if requested.

### **Main Flow:**

1. Customer starts a new session.

- 2. System displays instructions for depositing items.
- 3. Customer inserts bottles or cans one by one.
- 4. System identifies each item type and records it.
- 5. System shows total number of items and deposit value.
- 6. Customer chooses to print a receipt or continue depositing.
- 7. System prints receipt (if requested) and ends the session.

### **Alternative Flow:**

If an unrecognized or damaged item is inserted, the system rejects it and displays a message to the customer.

# **Use Case Narration 2: Trigger Alarm**

Use case Name: Trigger Alarm Actors: System, Recycling Machine.

**Goal:** To alert the operator in case of malfunction or security issue. **Preconditions:** Machine is operational and sensors are active.

**Post conditions:** Alarm is triggered, and alert notification is sent to the operator.

#### Main Flow:

- 1. System detects an issue (e.g., jammed item, full container, or system error).
- 2. System activates visual and sound alarms.
- 3. System sends an alert message to the operator panel.
- 4. Operator checks the issue and takes corrective action.
- 5. Once resolved, the operator resets the alarm.

## **Alternative Flow:**

If the alarm was triggered accidentally, the operator can verify and cancel it from the control panel.