### *RECYCLING MACHINE FUNCTIONAL REQUIREMENTS:*

| Type | Requirements |
|---|---|
| **Functional Requirements** | - Accept plastic, glass bottles, and aluminum cans.<br>- Detect item type via barcode or sensor.<br>- Display reward or refund value per item.<br>- Print receipt or reward voucher.<br>- Dispense rewards (cash, coupons, credits).<br>- Reject non-recyclable or damaged items.<br>- Track total items collected by type.<br>- Alert for bin full or machine jam conditions.<br>- Provide multilingual interface.<br>- Send transaction data to a central server. |

### *RECYCLING MACHINE NON-FUNCTIONAL REQUIREMENTS:*

| Type | Requirements |
|---|---|
| **Non-Functional Requirements** | - Each item should be processed in under 5 seconds.<br>- Machine must operate 24/7 with 99.8% uptime.<br>- Data must be securely transmitted and stored.<br>- System should comply with environmental and safety regulations.<br>- Interface must be intuitive and usable by all age groups. |