

Billing System - Design Doc

1. Goal

Provide a minimal billing system for a grocery store. Cashier should be able to:

- Register customers
- Store product info (name, price, tax rate)
- Create customer checkout
- Print a simple bill (totals, tax, grand total)

2. Scope

User stories included:

- US1: Create new customer (name, phone number)
- US2: Add product to catalog (SKU, name, price, tax)
- US3: Start checkout session for customer
- US4: Add items (product + quantity) to session
- US5: End session -> shows the total and bill

3. Data Model

Customer:

- Id
- Name
- Phone

Products:

- ID
- Sku
- Cost
- Name
- Tax

4. Workflow:

- Cashier adds customer
- Cashier starts checkout for customer
- Adds items
- The system automatically computes cost + tax etc...
- Receipt is shown