Vending Machine Software

You've been asked to develop an application for the newest vending machine distributor, Umbrella Corp. They've released a new vending machine (Vendo-Matic 600) that is integrated with everyone's bank accounts allowing customers to purchase products right from their computers for convenience sake.

Menus and submenus:
1. Display items
2. Purchase items
    1) Feed Money
    2) Select Product
    3) Finish Transaction
3. Exit
4. Sales Report** Optional hidden menu item

Story	Acceptance Criteria
As a vending machine ower, I need a way to update my vending machine with a standard amount of inventory every time it's started.	Given a file contains the list of items formatted correctly When the vending machine is started Then inventory is created/updated with what items are in each slot based on the contents of the file. Each inventory item has a name, price, and type (beverage, candy, chips, gum). Given an item is in the inventory file When the vending machine is started and the inventory is updated Then the slot indicated is filled with five of that product
As a customer, I want to see items available for purchase in the vending machine.	Given an item is available When a customer displays items Then the item is displayed with the name, slot identifier and purchase price Given an item is sold out When a customer displays items Then the item is displayed as SOLD OUT
As a customer, I want to deposit money into the vending machine.	Given a customer is in the purchase menu Then they are able to deposit money in whole dollar amounts Given a customer is in the purchase menu When they deposit money Then his/her current balance is updated and displayed
As a customer, I want to purchase items from the vending machine.	Given a customer is on the purchase menu and has not deposited money (current balance is $0) When they try to select a product Then they are given an error message that they must deposit money before making a selection Given a customer is on the purchase menu When they select an item for purchase that is available Then : 1) the customer's current balance is updated based on item cost 2) the inventory and balance of the vending machine are updated 3) the item is dispensed and the user receives a message based on the item type: All chip items will print "Crunch Crunch, Yum!" All candy items will print "Munch Munch, Yum!" All drink items will print "Glug Glug, Yum!" All gum items will print "Chew Chew, Yum!" 4) the customer is returned to the purchase menu Given a customer is on the purchase menu When the customer attempts to purchase an item that is sold out or costs more than their current balance Then they are given an error message and returned to the purchase menu
As a customer, I want my change to be returned when I'm finished purchasing items.	Given a customer is on the purchase menu When they choose Finish Transaction Then the customer recieves (a message with) their change using nickels, dimes and quarters using the smallest amount of coins possible and the current balance is updated to $0. They are then returned to the main menu.

As a vending machine owner, I want an audit file so that I can see what my vending machine has sold.	Given a customer has fed in money When the audit file is viewed Then there should be an entry for every time money was fed in labeled "FEED MONEY" that includes date, time, amount, new balance. Given an item has been purchased When the audit file is viewed Then there should be an entry for every purchase that includes date, time, item name, item slot, item price, remaining balance Given a customer has completed a transaction When the audit file is viewed Then there should be an entry for every transaction completed labeled "GIVE CHANGE" that includes date, time, amount of change, remaining balance (should be $0)
As a vending machine owner, I want a sales report as a hidden menu option so that I can see the total sales since the machine was last started	Given a product is in the vending machine When the sales report is run Then there is a line for that product with the item name | total number of sales When the sales report is run Then at the end of the report is a blank line followed by **TOTAL SALES** $dollar amount indicating the gross sales from the vending machine.