**Point of Sale Terminal Simulation**

The software is a simulation of the POST system which shall be acted as a cash register system. The system runs the terminal to simulate all the processes starting from the begin state of the closed store to the end state of printing an invoice to customer.The system inherits the properties of a cash register system which includes a bar code scanner (UPC codes) of the products, a cash drawer and a credit card scanner.

**Getting Started**

These instructions will get you a copy of the project up and running on your local machine for development and testing purposes. See deployment for notes on how to deploy the project on a live system.

**Prerequisities**

Primary: JDK (Java development kit)

Optional: IDK (Integrated Developing Environment)

**Installing**

The software was written in Java programming language.

Primary installation: JDK (Java development kit)

How to install it: https://www.ntu.edu.sg/home/ehchua/programming/howto/NetBeans\_HowTo.html

Developing references: IDK (Integrated Developing Environment)

1. Netbeans IDE (version 8.0.2 or above)

How to install it: https://www.ntu.edu.sg/home/ehchua/programming/howto/NetBeans\_HowTo.html

2. Eclipse IDE.

How to install it:

**Running the tests**

For local testing without IDK and an installed JDK for **Windows**:

1. Download/clone from https://github.com/ngtantai/POST-simulation.git

2. Extract zipped file.

3. Open and run command prompt.

4. Navigate to the directory containing the main file by typing

cd "....\POST\build\classes\store"

5. Run the main class by typing

java store.Store

**Break down into end to end tests**

Explain what these tests test and why

Give an example

**Critical events/behaviors:**

helpcustomer(customer):

Iterate each customer

retrieve their total items in cart(each item associates with specified price)

Calculate total cost by adding all item prices.

checkout(customer):

authenticate payment method

generate and print out customer receipt based on type of payment.

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