

SENG300 P3-G1

Derek Atabayev : 30177060
Enioluwafe Balogun : 30174298
Subeg Chahal : 30196531
Jun Heo : 30173430
Emily Kiddle : 30122331
Anthony Kostal-Vazquez : 30048301
Jessica Li : 30180801
Sua Lim : 30177039
Savitur Maharaj : 30152888
Nick McCamis : 30192610
Ethan McCorquodale : 30125353
Katelan Ng : 30144672
Arcleah Pascual : 30056034
Dvij Raval : 30024340
Chloe Robitaille : 30022887
Danissa Sandykbayeva : 30200531
Emily Stein : 30149842
Thi My Tuyen Tran : 30193980
Aoi Ueki : 30179305
Ethan Woo : 30172855
Kingsley Zhong : 30197260

SelfCheckoutStationLogic class:

- Connects all elements of software together
- Install selfCheckoutStation and Session

Session has the following:

- Manages the state of the session
- Has the actions that customers can perform for a self checkout system such as:
 - Start session
 - add/remove items of various types
 - Purchase bags and add own bags
 - Pay for items via cash/card (credit & debit)
 - Enter membership card
 - Get receipt
 - Ask/signal for attendant's help
- Weight package:
 - Updates the weight as items are added to the system
 - Checks for weight discrepancy
- Funds package:
 - Keeps track of the total price of items, the amount paid by the customer, and the remaining amount due by checking status of payment
 - Supports different modes of payment such as pay via cash and pay via card
- Receipt package:
 - Prints receipt once payment has been made
- Items package:
 - Defines a rule for adding items based on different modes of adding items
 - Manages aspects to adding items to an order (scan, visual catalogue, PLU, bulky item)
 - Adds reusable bags (and places in the dispenser)
- Membership package:
 - Defines the instances of members and provides functionality for entering membership numbers

General features for the Attendant (attendant package):

- Attendant session is connected to their own station; listen to all registered customer sessions
- Attendant can do the following to resolve customers' issues:
 - Maintain ink, paper, coin and banknote
 - Enable/disable session
 - Handle weight discrepancy by removing/adding items and/or bags
 - Add item via text search
 - Predict an error pre or post session

All these features are interacted through a graphical user interface for the self-checkout station software, hardware and for the attendant station, developed using the Java Swing library. That allows you to visually interact with all of the components a part of the software.