## 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

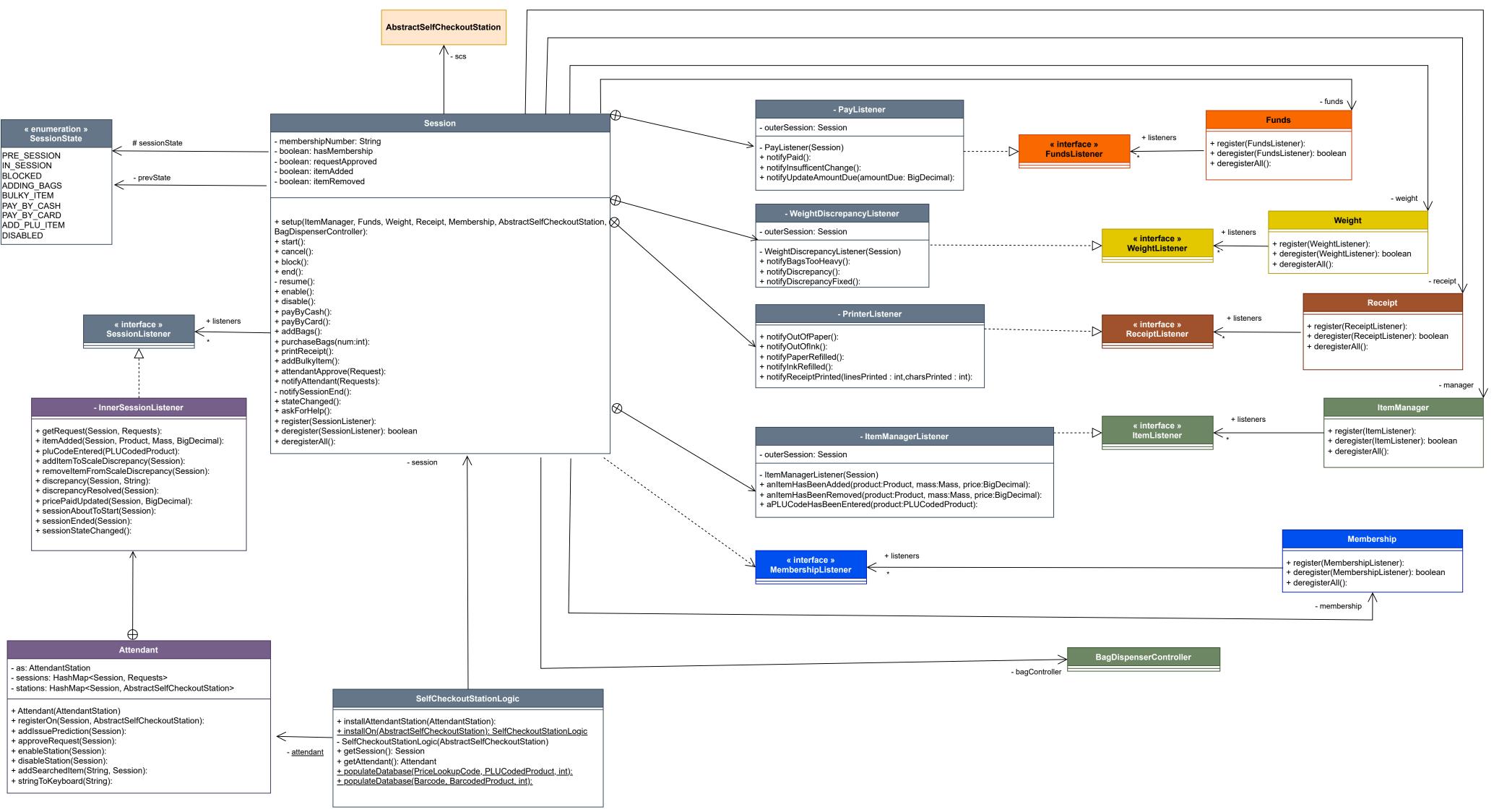
## Session has the following:

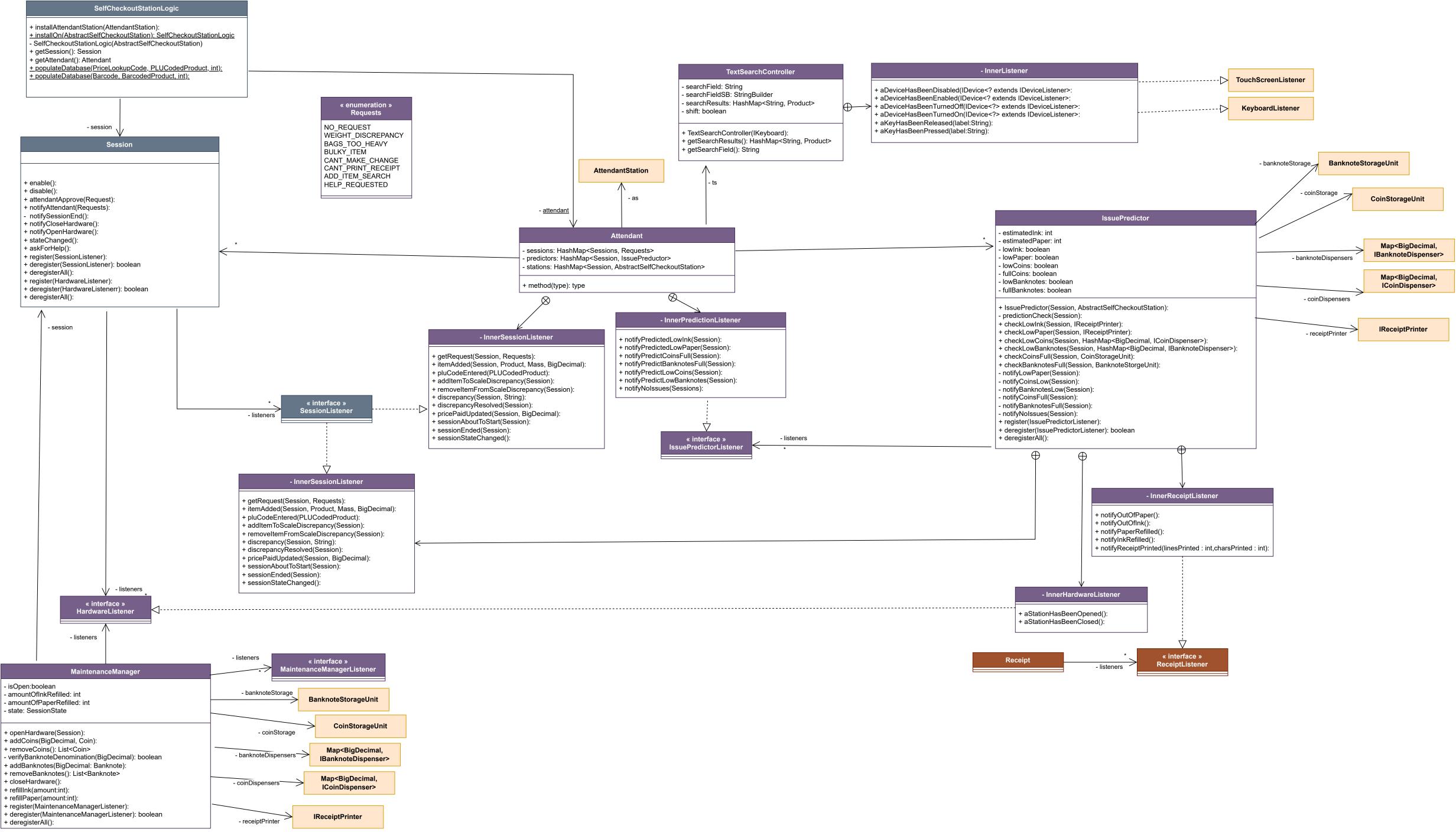
- Manages the state of the session
- Has the actions that customers can perform for a self checkout system such as:
  - Start session
  - add/remove items of various types
  - Purchase bags and add own bags
  - Pay for items via cash/card (credit & debit)
  - Enter membership card
  - Get receipt
  - 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

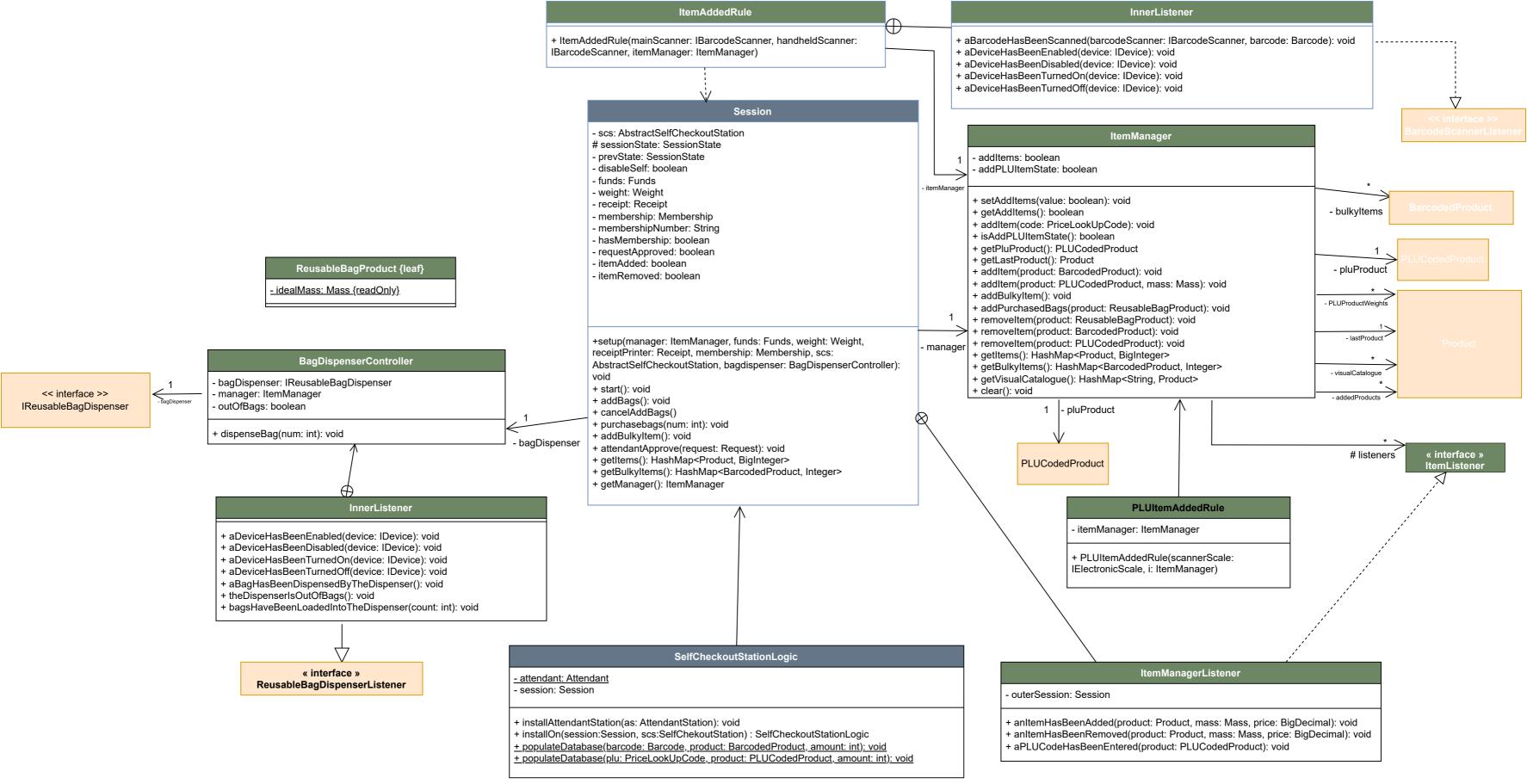
## General features for the Attendant (attendant package):

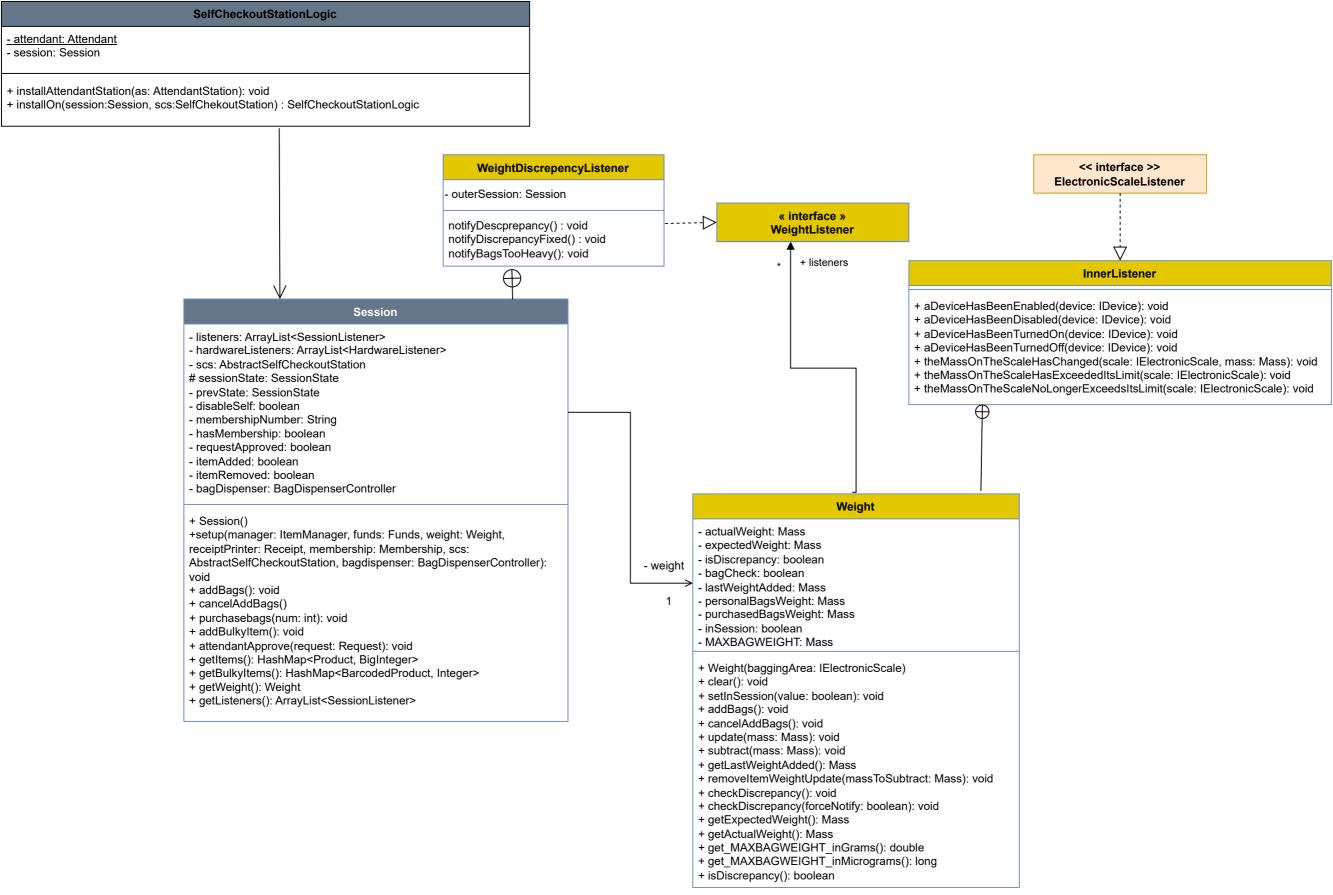
- Attendant session is connected to their own station; listen to all registered customer sessions
- Attendant can do the following to resolve customers' issues:
  - Maintain ink, paper, coin and banknote
  - Enable/disable session
  - Handle weight discrepancy by removing/adding items and/or bags
  -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

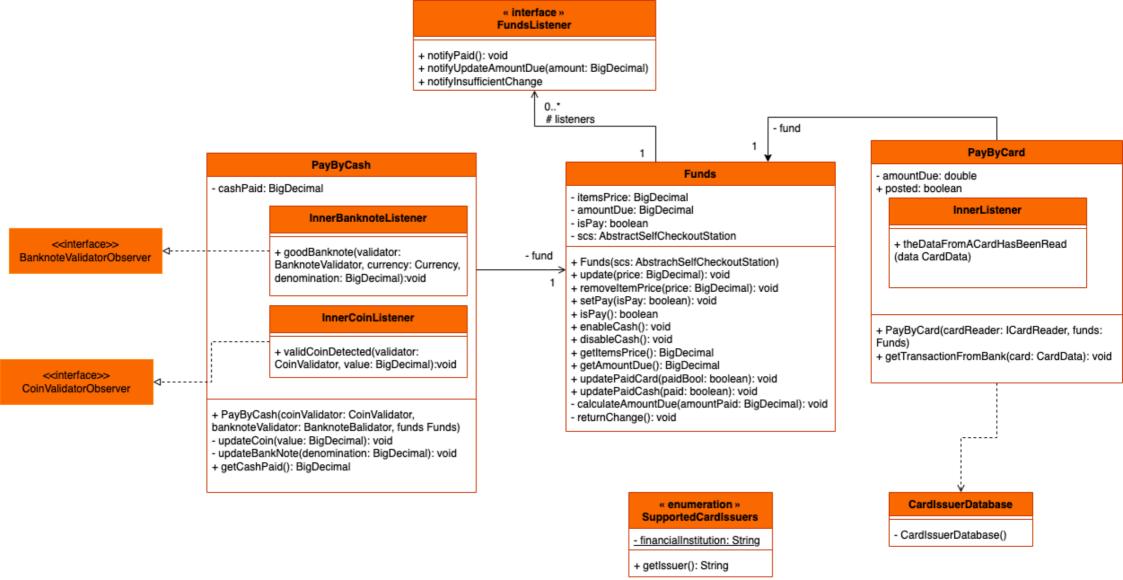
All these features are interacted through a graphical user interface for the self-checkout station software, hardware and for the attendant station, developed using the Java Swing library. That allows you to visually interact with all of the components a part of the software.











#### Session

- listeners: ArrayList<SessionListener>
- hardwareListeners: ArrayList<HardwareListener>
- scs: AbstractSelfCheckoutStation
- # sessionState: SessionState
- prevState: SessionState
- disableSelf: boolean
- membershipNumber: String
- hasMembership: boolean
- requestApproved: boolean
- +setup(manager: ItemManager, funds: Funds, weight: Weight, receiptPrinter: Receipt, membership: Membership, scs:
- AbstractSelfCheckoutStation, bagdispenser: BagDispenserController): void
- + enterMembership():
- + getListeners(): ArrayList<SessionListener>

