# Structure/classes

The code is currently structured with 5 classes 2 being used as control classes (explained later) and the other three classes being used to store methods for each type of user or the Main class wich exists to control the menu and start the program along side call the other classes

The control classes exsist to hold functions that activate based on the JavaFX buttons and help control the flow of the GUI each javafx file contains code that when a button is pressed that it calls the appropriate control type with both user types having seprate control classes when a function is unshared to make the code more secure and readable

# Main

## Function

The main class function Is to launch the program it than runs the menu for the user wich will establish the connection with my sql and check it and than it will launch the Main menu GUI wich will be the very first GUI screen

Once the user has picked the user they would like to login to the javafx file for the main screen will than call upon the class type of the user they would like to log in as and than call upon the appropriate login screen for that user type to help create an instance of that class for the user and keep the flow of the GUI outside this the main class also has the input variable this exists to help reduce code duplication of scanner variables for the software

## Variables

Input – used to store the users input contained in main class to reduce duplication

## Methods

Launch function exists to start java fx and is the first screen that is loaded

# User class

This is the basic user class for the employee it allows the employee to login start their shift on till and track items sold and for now that is it

## Variables

Start shift and end shift- due to the way the program tracks the shift it gets the current systems time and than uses this to take away from the systems time once its done than it runs through a function to give a readable time for the shift on till worked

## Functions

End shift- this contains the calculation for converting the shift time into readable data by a human being

## Adminstartor class

This call contains the functions to create user accounts and the ability to reead user accounts from the database

On later versions the adminstator should be able to read out item staticts such as sales and other data such as revune on each date

## Variables

No notable variables as of this time

## Functions

Create account – self exsplantory

Read account – reads out all data read to the account

# Java FX screens

Flow of java fx screens

A diagram of a computer program

Description automatically generated

# Database

The database exxsist to store the variables and stats of the user onto a database linked to their account information

## Roles

There are three basic roles/rights that are supported by the software and mySql

User- this is the most basic the privilege of viewing their own account and starting a shift

-addminstator- this supports basic adminstation action such as updating enties in the table such as creating and updating accounts but does not support any changes beyon this level and all of this is supported in the software

-admin this support changes to the database along side with much greater privliages such as more mass changes to a table or modification of the table itself most of this however is supported in the mysql program itself

## Variables stored in database

When it comes to the variables stored in the database you have the list below with a quick explanation

Iduser- unique identifier

Name – this is the users name

Password- stores the users password

Hours worked – stores the users current hours worked

Revenue – stores the gain of the employee in revenue

Rights- stores the access level of the user to the database (note this is in the software itself not the mysql database software that has a seprate account system for moderation)