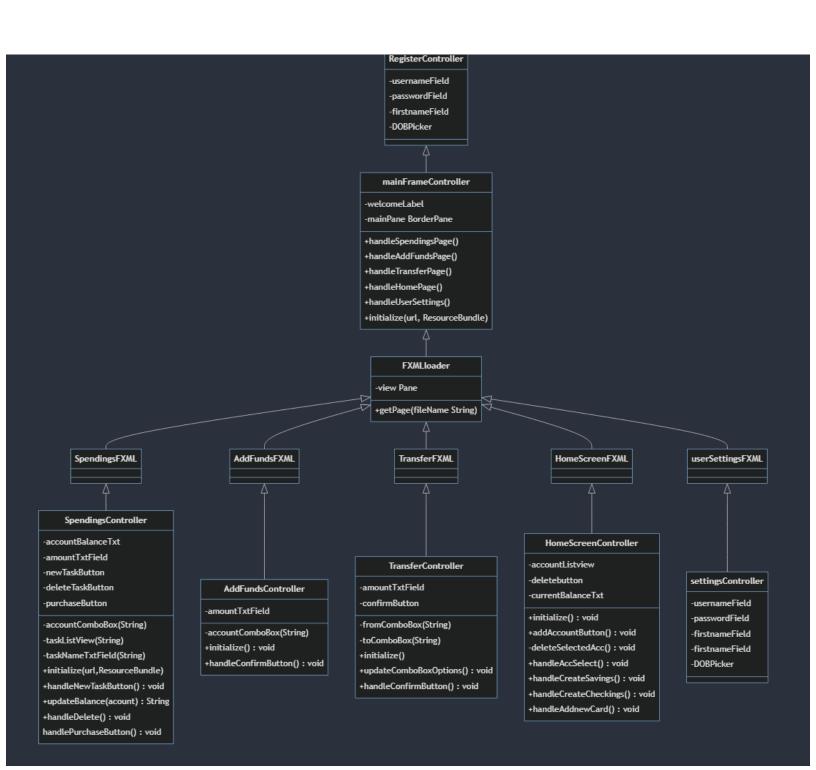
Coin Haven Implementation

UML Diagram



InMemoryDatabase -users List[User] -savingsAccounts List[SavingsAccount] -checkingsAccounts List[CheckingsAccount] -cards list [Card] -tasks List[String] +addUser(username,password): void +addSavingsAccount(accountName,DateCreated,startingBalance): void +addCheckingsAccount(accountName,DateCreated,startingBalance): void +addCard(card#,cardHolder,expireDate,CCV): void +addTask(task Sting): void +getTasks(): List [String] +getAccountNames(): List [String] +getAccountType(accountName string): String +getStartingBalance(accountName string): String +updateSavingsBalance(accountName string, amount double): void +updateCheckingsBalance(accountName string, amount double): void +deductAmount(accountName string, amount double): void removeTask(task string): void +transferFunds(fromAccount, toAccount, amount double) : void

This is the implementation for Coin
Haven. The majority of this application
consists of Java controller files and
FXML files. The FXML files are the
basic layouts of the UI for each page.
They are linked to their own
independent controller file that gives
the program functionality. Each
controller has various methods for
gathering and displaying user data
behind the scenes. Each one is

connected to the in-memory database. This database uses sets of ArrayLists to store user data. This data is received from the controller files and manipulated accordingly. There are several methods that exist in the database that can be called in the controller to manipulate, send, retrieve, and update user information as needed. There's also an FXML loader file connected to the "mainframe" controller which is used to load the FXML page for the corresponding button listed on the side panel when it is selected.