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## UML Diagram Description

Our UML diagram starts with the **login page** which has two methods `requireUserName` and `requirePassword` which will take in the username and password as input and then send the user to the account page through the `goToAccountPage()` method. Login page consists of two strings `password` and `username` holding the values of the username and password typed.

Moving on we also have a section in our diagram called the **account page** which has strings and ints that hold information such as card information, email address location of the user and reward points. It will also have a boolean that will check whether the user has a discount. It will consist of different methods to change their location `changeLocation()` return to the homepage `goBackToHomePage()` display their user information `DisplayUserInfo()` and the ability to change their information `changeUserInfo()`.

We will also have a class called **employee page** consisting of different methods allowing for an employee to alter movies that are going to be shown some of these methods include the ability to change the time on a movie `updateTime()` they will be able to change the prices on movies as well as provide refunds for users `updatePrice()` and `giveRefund()`. It will include removing movies and adding them `addMovie()` `deleteMovie()`. And lastly it is able to add a location to the movie `addLocation()`.

We will also have an class referring to user refunds called **Refund page** it has strings called `displayphonenumber` and `phonenumber` with a method titles `displayPhoneNumber()` it will be a page that tells the user to call the phone number displayed through the function `displayPhoneNumber()` for a refund.

We have a class in the diagram titled **help line** where the user will be able to get most of their assistance from. We will have three strings `phoneNumber` `userTalk` and `commonQuestions` along with the methods `displayAiChat()` `displayPhoneNumber()` `displayCommonQuestions()` `goToRefund()` `displayRefundPage()` and lastly `goToHomePage()`. These methods will display the ai chat in order for the user to interact with it display a phone number so the user can call for assistance. The method `displayCommonQuestions()` will show the user typically asked questions that can be solved with simple instructions. And the last three methods send the user to different pages such as displaying the refund page and sending the user to the homepage.

There will also be a **Home Page** class that has a string called `movieNames` that stores the names of the different movies that are going to be displayed on the movie page it will also hold an int called `numberOfMovies`. We will have a method that can display the new movies coming to theaters. A method called `goToLogin()` that sends the user back to the login page. A method called `goToMoviePage()` which sends the user to the movie page. A method called `clickOnSearch()` which opens up the search bar for the user to type in movie names. A method called `displayAvailMoveis()` which will show the movies that are currently being shown in theaters. A method called `displayInUserLang()` which will change the text being displayed on our website to the users preferred language. ANd lastly a method that sends the user to the help line class and a method to `displayAds()` so our website can bring in more revenue.

Moving on from the home page we have a class called **Search Bar** that has a string called `userLook` to hold user input of what they are trying to search for. The class will only have 3

different methods `userSearch()` which will take in the string `userLook` and search for the movies available. We will also have a method that will check the user's spelling `spellCheck()`. And then a final method `userToMoviePage()` which sends the user to the movie page.

Moving down the diagram we have the class **movie page** which will be the main area that the users will be able to view the movies price, the amount of seats available and the dates that the movies will be available. We have two ints holding the price and rating and 5 strings called `times`, `reviews`, `availTheaters`, and `dates`. The methods that will be in the class include `displayMovie()` which show the movies available, `ticketPrice()` which displays the cost of a ticket for the specified movie, `availTheaters()` which show the different theaters showing the movies, `displayTimes()` which shows the times of the movies, `displayDates()` which shows the dates of the showings, `goToCheckout()` which sends the user to the checkout page, `displayRating()` which shows the rating of the movies, `displayReviews()` which shows the audience reviews on the movies. And lastly a method called `goToHomePage()` which sends the user to the home page.

Using the previous method called `goToCheckout()` it will send the user from the home page to the checkout page. The **Checkout** class will contain 3 ints `numberOfSeats`, `foodPrice`, and `rewardNumbers`. The class will also contain 3 strings `seatName`, `foodName`, and `availBankName`. The checkout class will also have many different methods that help the user pay for their items. `processPayment()` which will check the users payment information and accept payment, `requireLogin()` which will make the user login before paying for their cart, `displaySeats` which will show the remaining seats before purchase, `upsaleFood()` which is trying to advertise food to the user, `giveUserTicekts()` which will send the user their tickets electronically after their purchase has been confirmed, `DisplayAvailBanks()` which will display the banks that are accepted by EncoreTickets, and lastly `displayRewards()` which will show the users who are loyal to encoreTickets their reward points for previous purchases made.