

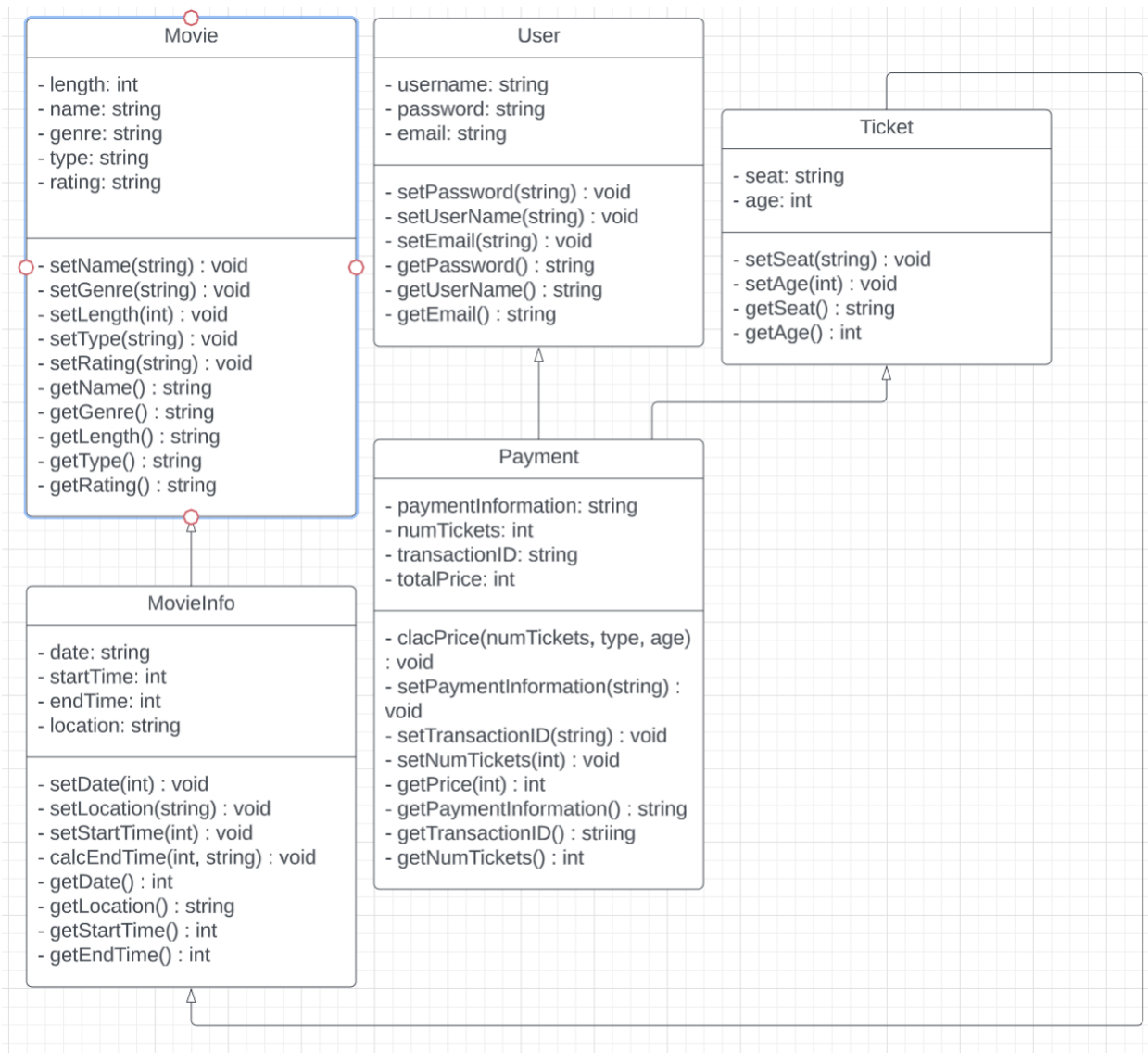
Movie Booking

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Software Description:

The system is a movie booking system. This software will allow users the ability to browse through movies and purchase tickets online. The software will have a great deal of information about these movies to best inform the users.

UML Diagram:



UML Class Description:

Movie Class:

Length: This is the runtime of the whole movie. This is manipulated by the `setLength()` method. The length variable is accessed by the `getLength()` method.

Name: This is the name of the movie. This is manipulated by the `setName()` method. The name variable is accessed by the `getName()` method.

Genre: This is the genre of the movie. For example a movie could be listed as an action, romance, comedy or sci-fi. This is manipulated by the `setGenre()` method. The genre variable is accessed by the `getGenre()` method.

Type: This is the type of screening the movie is being shown. For example a movie can be shown in Imax or 3-d. This is manipulated by the `setType()` method. The type variable is accessed by the `getType()` method.

Rating: This is the age rating the movie has. The different age-ratings a movie can have are G, PG, PG-13, R, and NC-17. This is manipulated by the `setRating()` method. The rating variable is accessed by the `getRating()` method.

MovieInfo Class:

Date: This is the date the movie will be shown. This is manipulated by the `setDate()` method. The date variable is accessed by the `getDate()` method.

startTime: This is the time the movie will start at. This is manipulated by the `setStartTime()` method. The `startTime` variable is accessed by the `getStartTime()` method.

endTime: This is the time the movie will end. This method can not be manipulated directly. It is instead calculated by the `calcEndTime()` method that uses the length and `startTime` variables. The `endTime` variable is accessed by the `getEndTime()` method.

Location: This is the location of the movie showing. This is manipulated by the `setLocation()` method. The location variable is accessed by the `getLocation()` method.

User Class:

userName: This is the username that the user inputs. This is manipulated by the setUsername() method. The userName variable is accessed by the getUsername() method.

Password: This is the password that the user inputs. This is manipulated by the setPassword() method. The password variable is accessed by the getPassword() method.

Email: This is the email that the user inputs. This is manipulated by the setEmail() method. The email variable is accessed by the getEmail() method.

Ticket Class:

Seat: This is the assigned or reserved seat inside of the movie theater. This is manipulated by the setSeat() method. The seat variable is accessed by the getSeat() method.

Age: This is the age category of the ticket owner. The different ages are child, adult, and senior. These are used to price the tickets. This is manipulated by the setAge() method. The age variable is accessed by the getAge() method.

Payment Class:

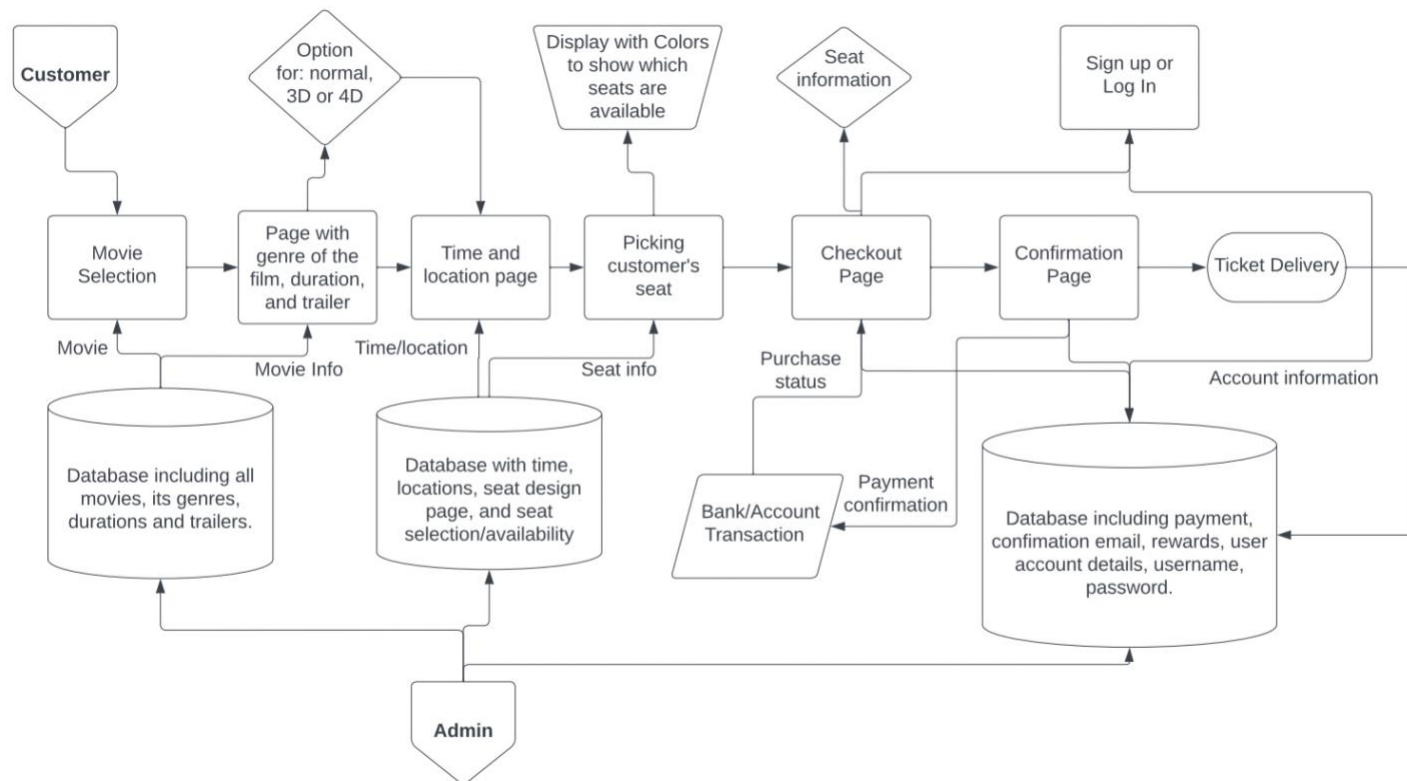
numTickets: This is the number of tickets a user is purchasing. This is manipulated by the setNumTickets() method. The numTickets variable is accessed by the getNumTickets() method.

paymentInformation: This is the payment information of the user. This is the credit or debit information that the user inputs. This is manipulated by the setPaymentInformation() method. The paymentInformation variable is accessed by the getPaymentInformation() method.

totalPrice: This is the total price of all of the items the user is buying. This method can not be manipulated directly. It is instead calculated by the calcPrice() method that uses age, numTickets, and type variables.

transactionID: This is the ID of the transaction that the user is doing. This method is manipulated by the setTransactionID() method. The transactionID variable is accessed by the getTransactionID() method.

SWA Diagram:



SWA Description:

Movie Selection: Customers will be able to select from a variety of movies, choosing what they want to watch.

Page with genre of the film, duration, and trailer: Once the user selects the film he desires, this page will show all details of the movie, including the genre, its duration, rating, trailer, and the options to watch it in normal, 3D or 4D.

Time and location page: This page will show to the user the times and locations available for the selected movie.

Picking customer's seat: This page will display a screen with all the seats available, and the seats already selected that will be identified with different colors. It will also contain wheelchair spaces for people with disabilities. The theater's screen will

also be laid out in the page design so that the customer can choose his preferred seat (closer or further away from the movie screen).

Checkout Page: Once the customer selects its preferred seat, the checkout page pops up. This page will contain options for an adult, child or senior ticket. It will contain the option to sign in/log in or just provide your email address to continue. It will contain your payment method and information that will be inserted by the customer. The page will also contain gift cards, vouchers, rewards for those who want to redeem them or even want to become a part of any of these catalogs. Lastly, a purchase button to confirm the order.

Confirmation Page: This page will contain the confirmation that the order/transaction worked displayed on the screen, and where to find the customer's ticket (in this case, via email).

Ticket Delivery: Tickets will be sent via email to the customer.

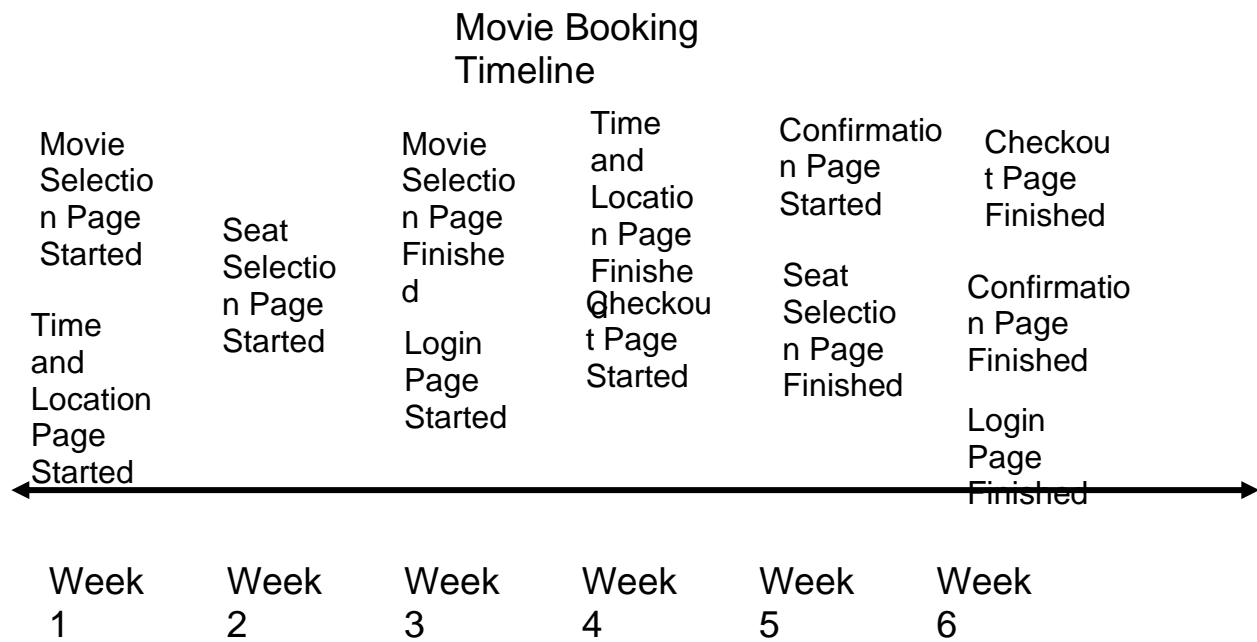
Databases: This will be used to store and retrieve all needed information from booking tickets in large volumes. It supports an organized collection of structured data.

Admin: This person will have access to all the databases of the website. He will be able to add any components to any database such as movies, seats, time, locations, and others as well as make changes to any user accounts, emails or even rewards.

Development Plan and Timeline:

Tasks: Login Page, Movie Selection Page, Time and Location Page, Seat Selection Page, Checkout Page, Confirmation Page

Timeline:



Responsibilities:

Drew: Movie Selection Page, Login Page

Blaise: Seat Selection Page

Eric: Time and Location Page

Gisele: Confirmation Page, Checkout Page