

ENSF 614

FINAL PROJECT

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Use Case Diagram

Movie Theatre Ticket Reservation App

Group 5



Use Case Scenarios

Select Movie:

The Home Page has a number of options – The user can login as a registered user, sign up to be a registered user, or continue as a guest

The user either logs in or continues as a guest.

The user can search for the movie he wants on the Home page and when he finds the one he wants, The user can click on the “Buy Tickets” button associated with the movie banner.

After The user selects Buy Tickets, the system proceeds to the “My Tickets” page

Select Theatre:

The user has either logged in or continues as a guest.

The user has clicked on the “Buy Tickets” button for the movie he wants to see.

The system takes The user to the “My Tickets” page which shows the showtimes, locations (theatre), price, available seats, and offers (if any).

The user selects the theatre location that he wishes to go to

Select Showtime:

The user has either logged in or continues as a guest.

The user has clicked on the “Buy Tickets” button for the movie he wants to see.

The system has taken The user to the “My Tickets” page which shows the showtimes, locations (theatre), price, available seats, and offers (if any).

The user selects the showtime that he wishes attend.

View Seat:

The user has either logged in or continues as a guest.

The user has clicked on the “Buy Tickets” button for the movie he wants to see.

The system has taken The user to the “My Tickets” page which shows the showtimes, locations (theatre), price, available seats, and offers (if any).

The user views the available seats for that specific theatre and showtime.

Select Seat:

The user has either logged in or continues as a guest.

The user has clicked on the “Buy Tickets” button for the movie he wants to see.

The system has taken The user to the “My Tickets” page which shows the showtimes, locations (theatre), price, available seats, and offers (if any).

The user views the available seats and then selects the specific seat he wants.

Confirm Selections:

After the user selects a movie, theatre, showtime and desired seat, the system asks the user to confirm selections. If the user chooses to proceed, the system indicates that the activity is complete and takes the user to the next step; else it takes the user back to the previous step if the user's choice is "not to proceed".

Checkout/ Make Payment:

After the user confirms his selection, the user enters details to checkout as a guest or log in as a registered user (if not logged in earlier). The user selects checkout and make payment, and the system proceeds to the payment page. The user is asked to enter his payment details which are transmitted to the Billing Institution. User gets a confirmation message to indicate if payment was successful or not. If payment was successful, ticket and receipt are generated.

Print/Email Receipt:

Once payment is confirmed by the Billing Institution, a payment receipt is generated. The system communicates with the email server and the receipt is automatically sent to the user's email provided during checkout or registration. The user can choose to print the receipt.

Print/Email Ticket:

User is logged in as a registered user or is a guest.

From a view of available movies, User selects the movie he wishes to see and presses the "Buy Tickets" button.

User selects his desired theatre from a list of available theatres.

User selects his desired showtime from a list of available showtimes.

User selects his desired seat from a view of seats, which indicate if they are available or not.

User confirms his selections and checks out.

User makes a payment for his tickets.

User can select if he would like to receive his tickets printed, emailed or both.

The system prints User's tickets if he selects printed/both.

If User has selected emailed/both, the system will prompt User for his email if he is a guest.

The system emails User's tickets if he selects emailed/both.

Register User:

User selects the option to register user from the Home Page.

The system asks User to input his email, name, a password, address and credit/debit card information. User inputs this information.

The system sends User an email confirming his registration.

Login:

User selects the option to login from the Home Page.

The system asks User his email and password. User inputs this information.

The system changes the view of the Home Page to that of a registered user, and loads User's information.

Cancel Ticket:

User selects the option to cancel ticket from the Home Page.

The system asks User for his ticket number. User inputs the information.

The system checks if the show is in less than 72 hours.

If the show is less than 72 hours, displays error that ticket can't be cancelled.

If the show is not in less than 72 hours, the system checks if the ticket was purchased by a registered user.

If the ticket was purchased by a registered user, the system asks User to confirm the cancellation. User confirms it.

If the ticket was not purchased by a registered user, the system displays a warning that User will only receive a credit valid for one year with an administration fee of 15%. The system asks User to confirm his cancellation and User confirms it.

Receive Movie News:

The system sends movie news to User's email.

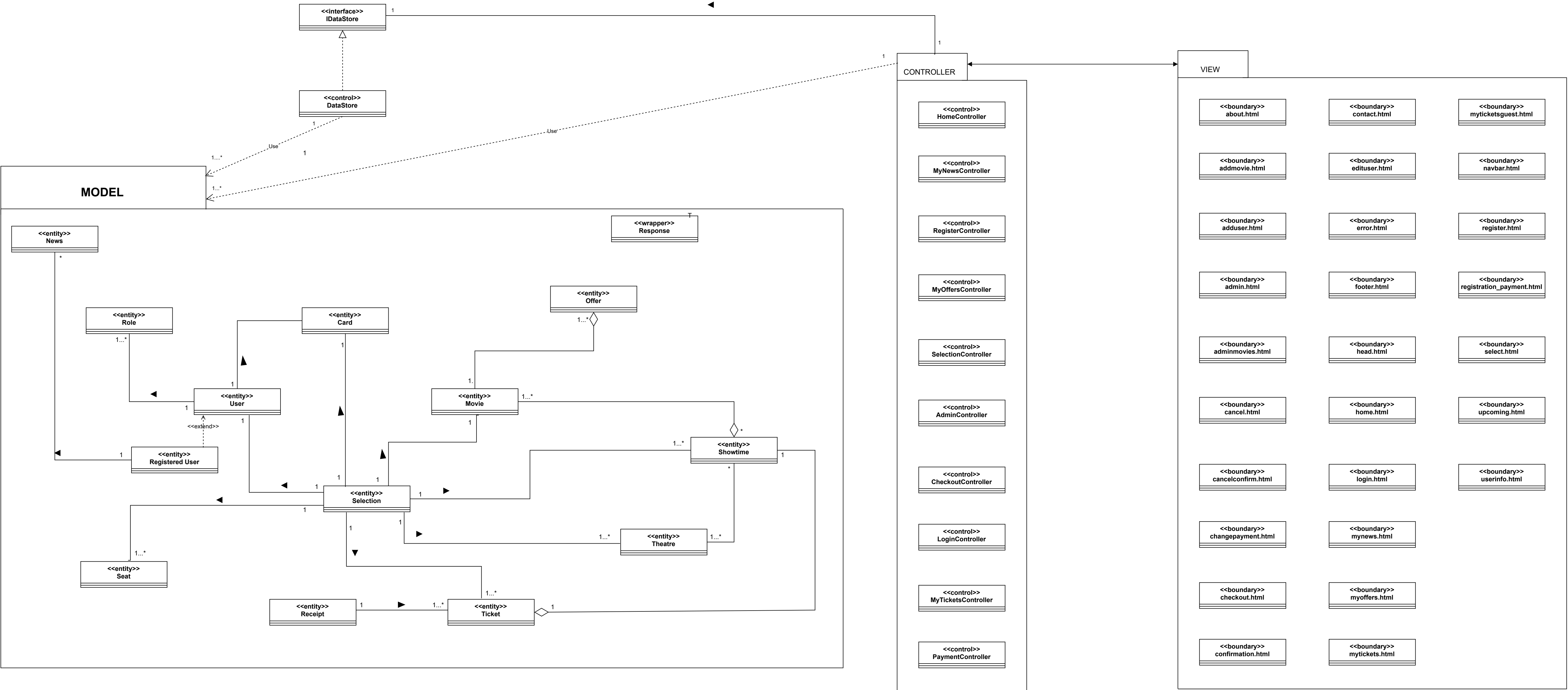
The system displays movie news to User on the Home Page as a notification if User is logged in.

Candidate Object List:

The user
movie
Seats
showtime
theatre
receipt
tickets
e-mail
billing institution
payment
movie news

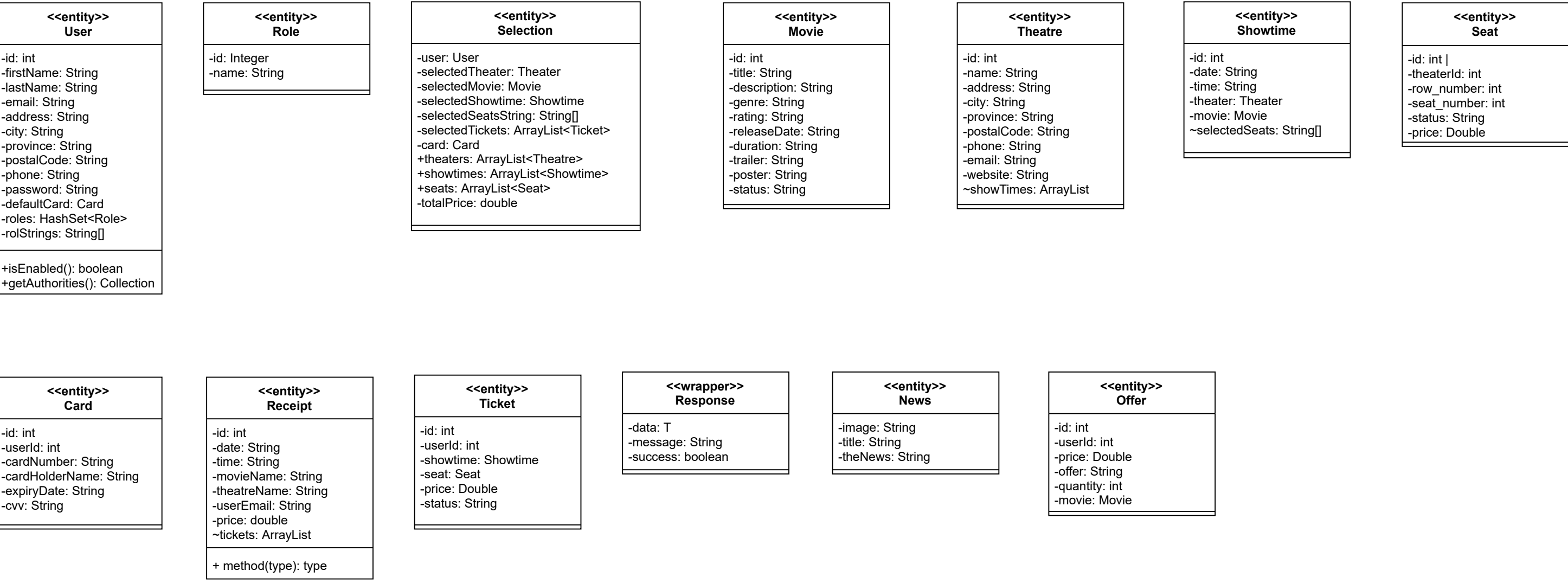
Model Class Diagram without Attributes and Behaviour

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Prepared by: Chinwe Ajieh

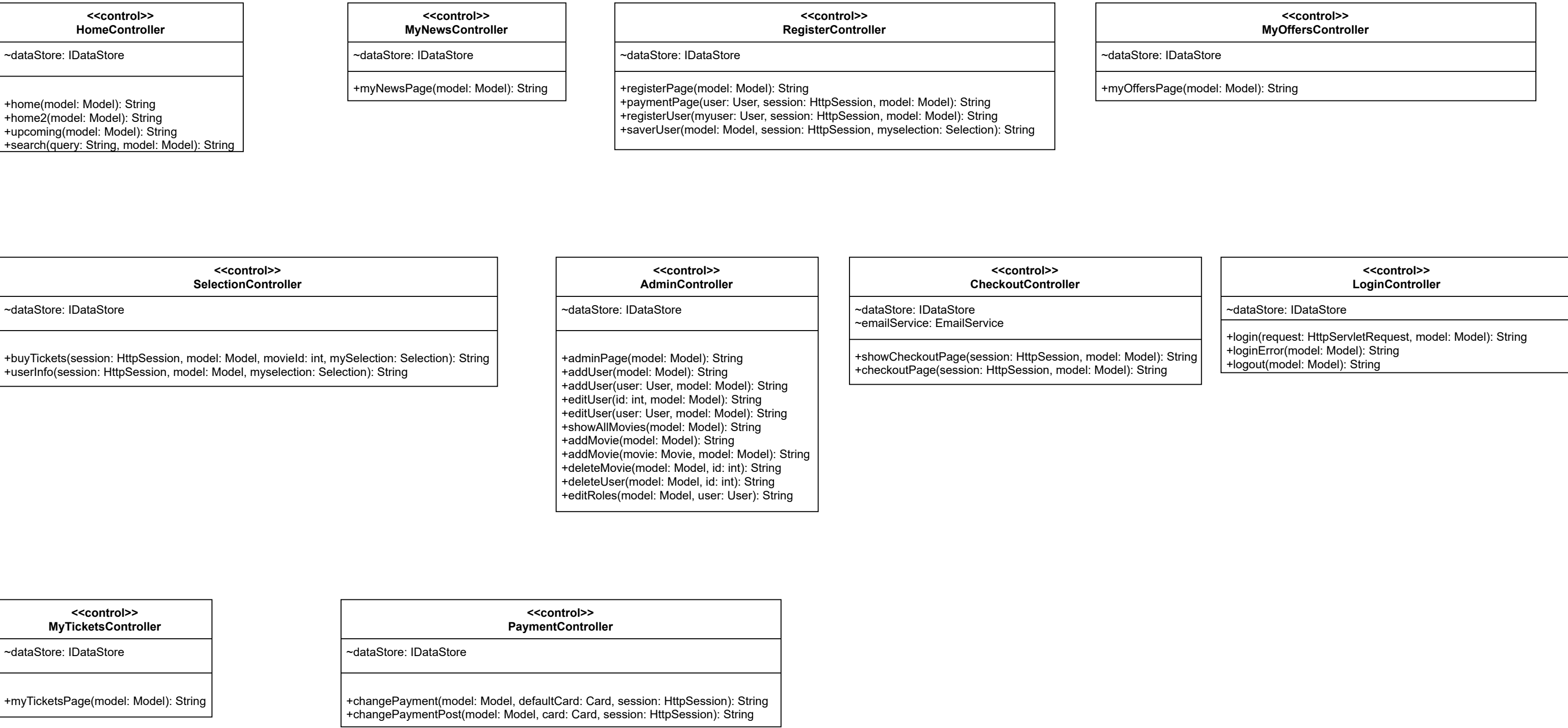


Model Class Diagram without Relationships, and with Attributes and Behaviour

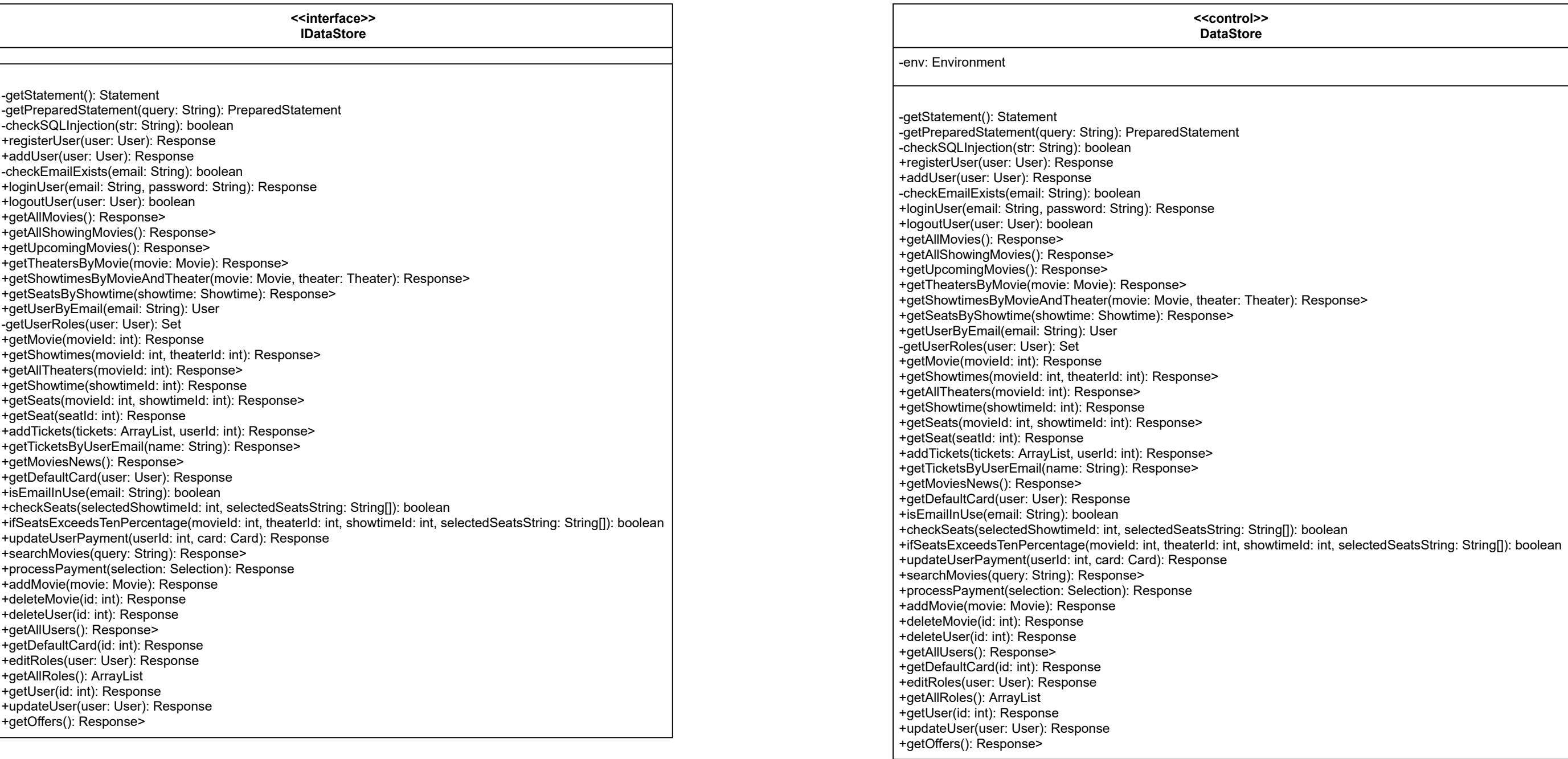
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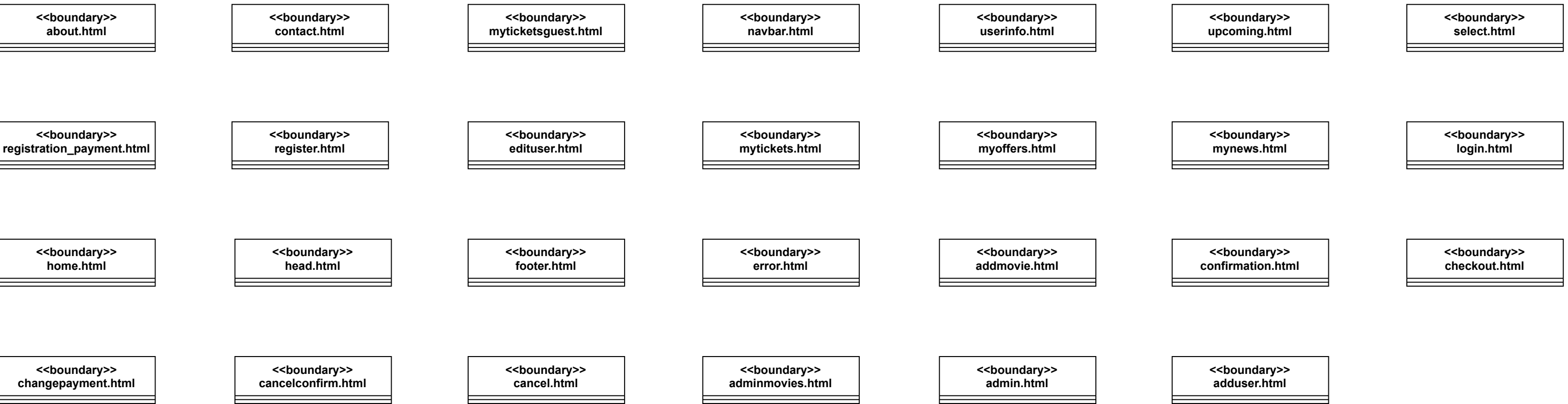
Controller Class Diagram without Relationships, and with Attributes and Behaviour



Data Control Class Diagram without Relationships, and with Attributes and Behaviour



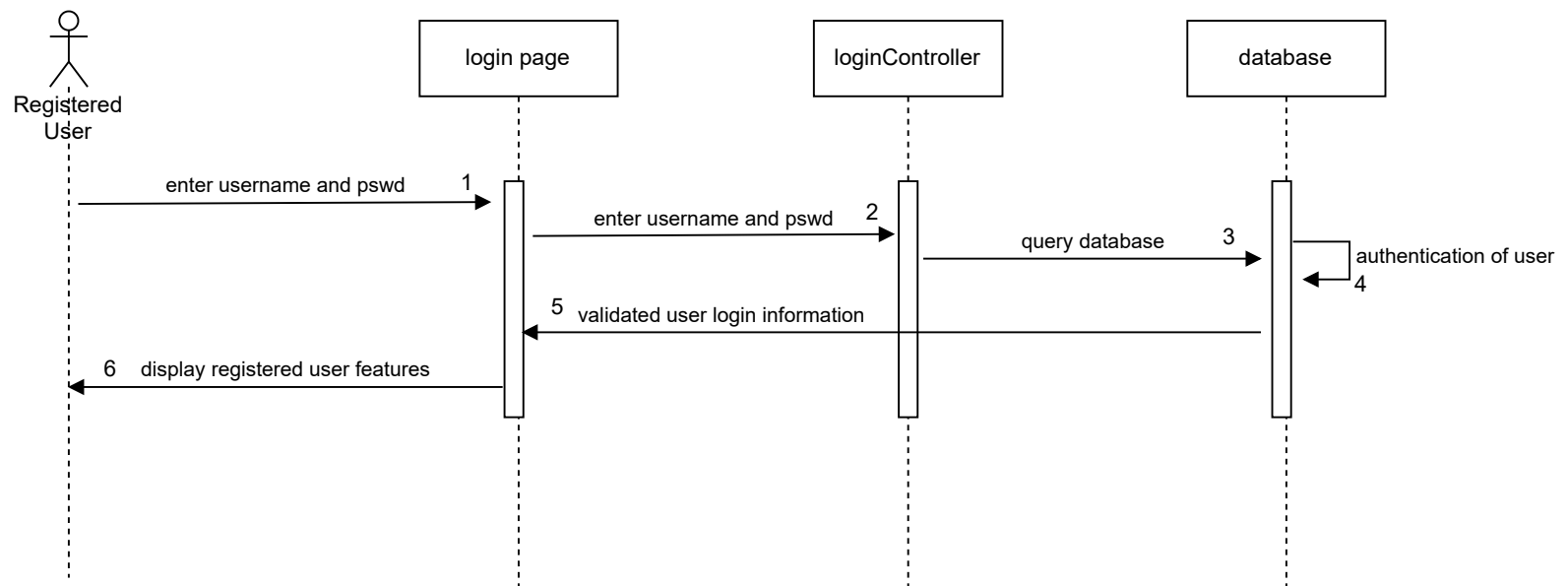
View Class Diagram without Relationships, and with Attributes and Behaviour



System Interaction Diagram

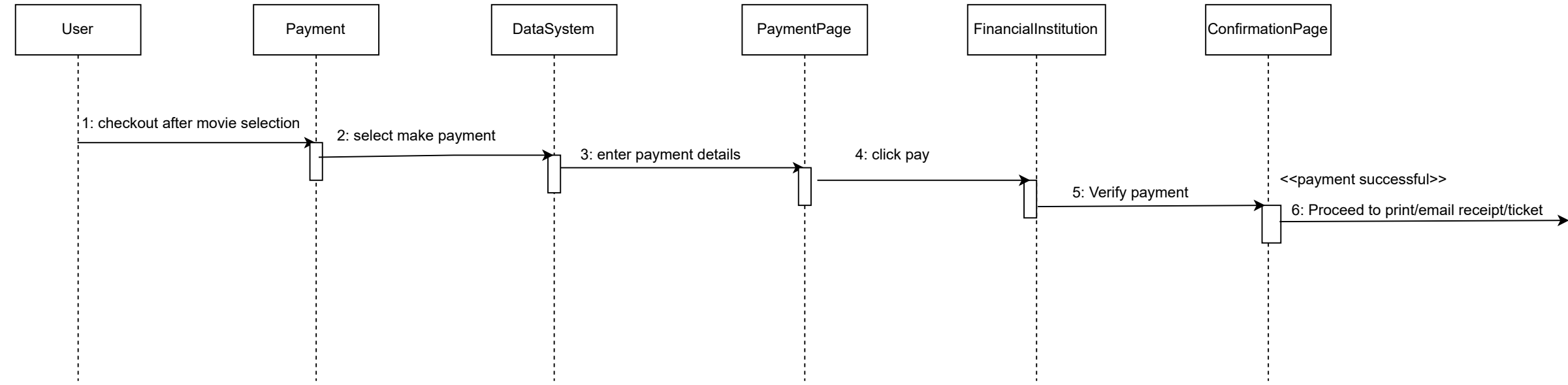
Registered User Login

Steve Andersen



System Interaction Diagram for Use Case- Make Payment

Created by: Chinwe Ajieh



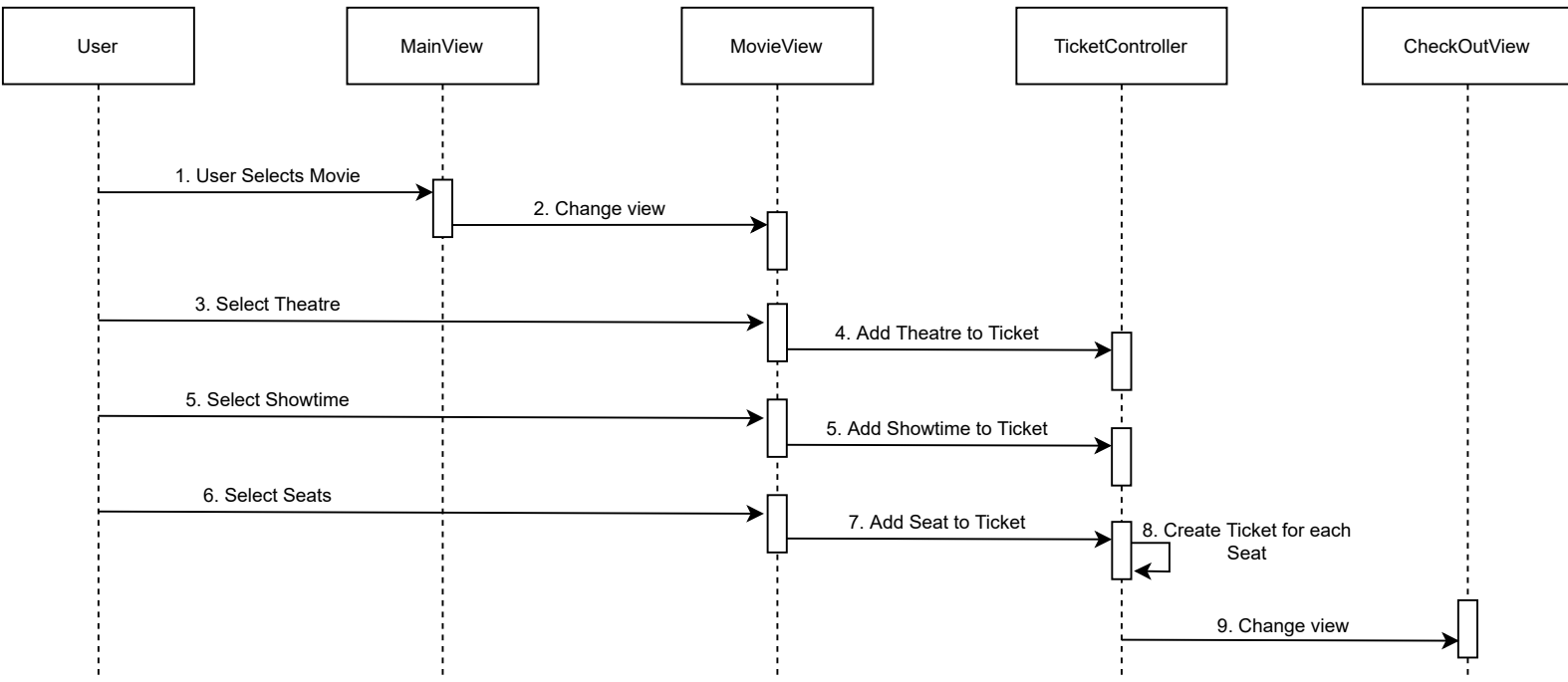
System Interaction Diagram - Ticket

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Prepared By:

Mohammed Alhajjaj



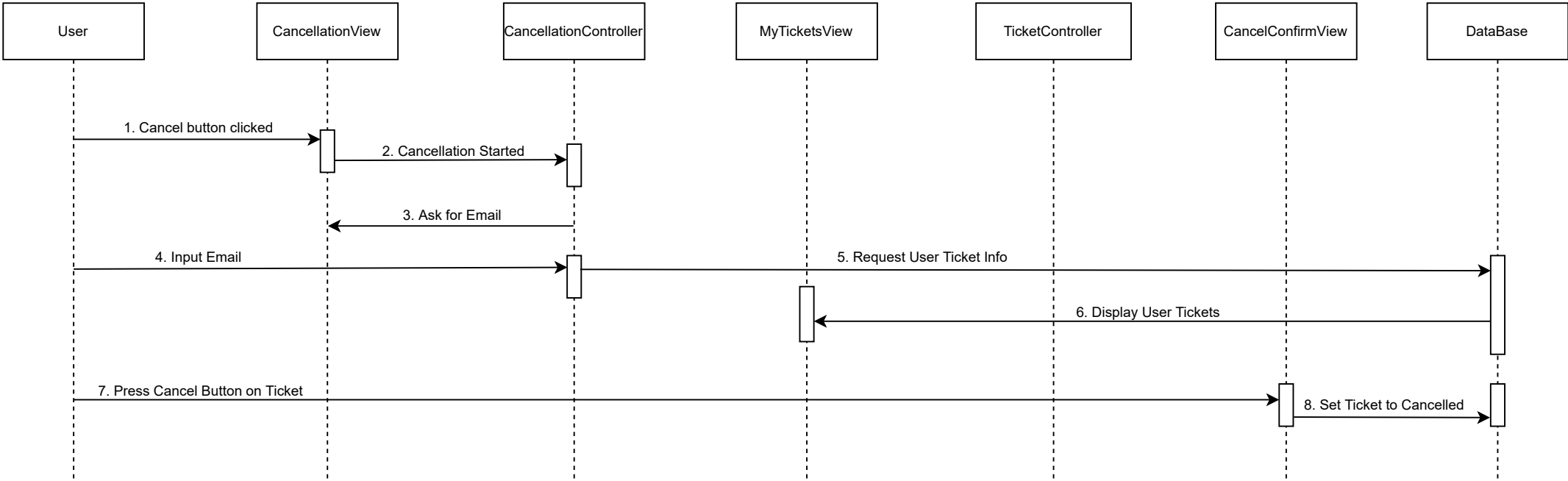
System Interaction Diagram - Cancellation

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Prepared By:

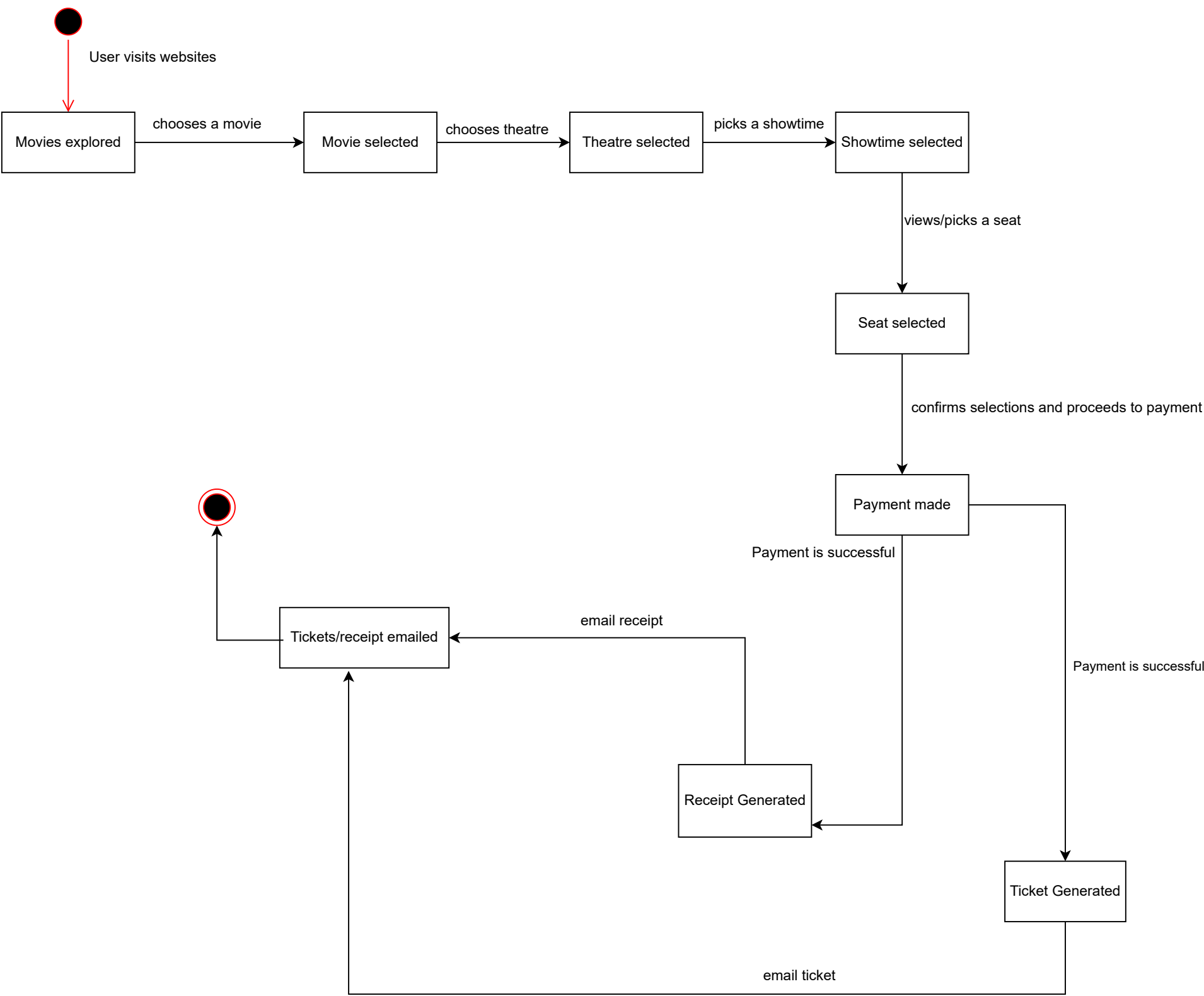
Muhammad Fahad Hussain



State Transition Diagram

for Use Case - Select Movies

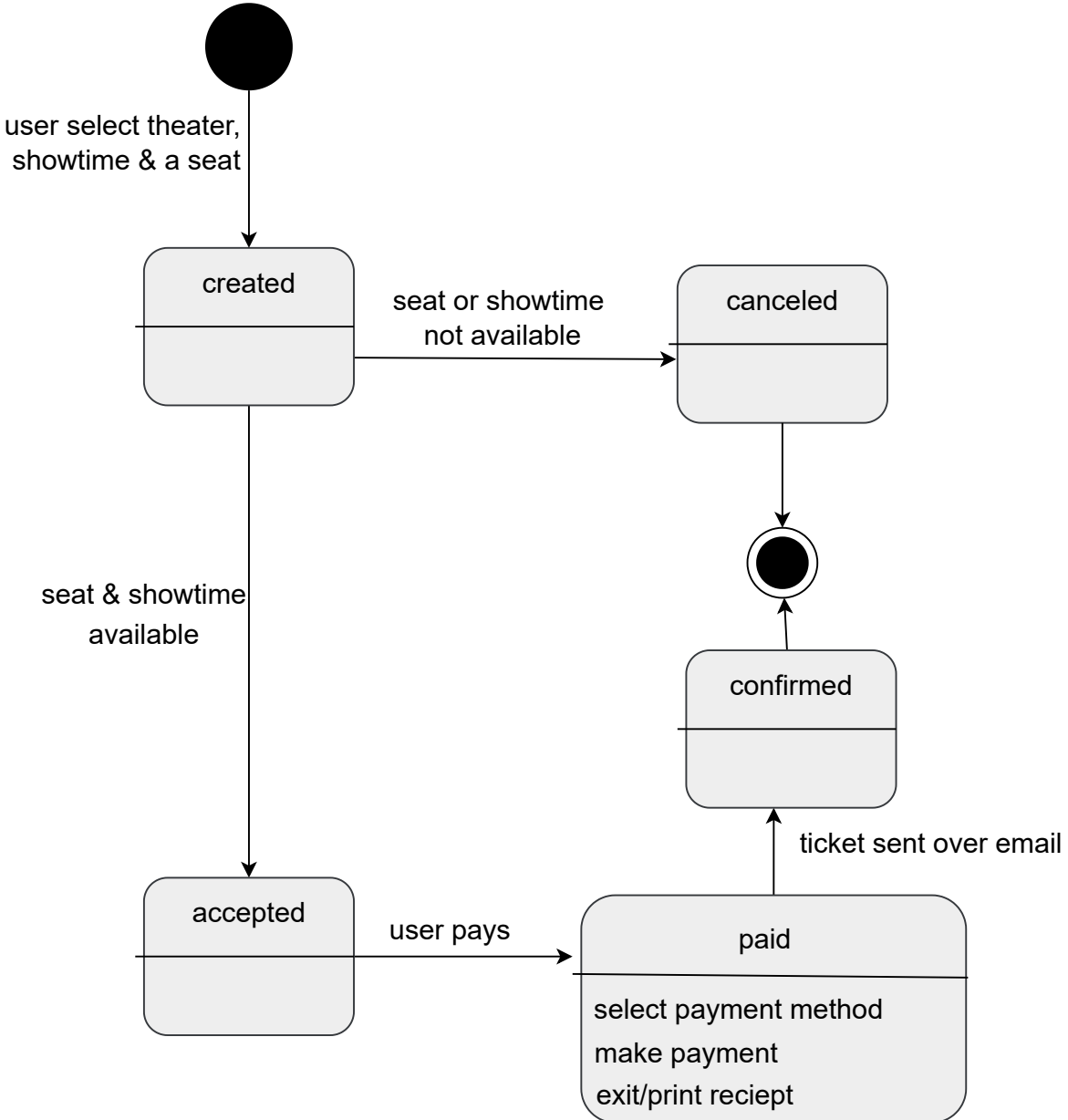
Created by: Chinwe Ajieh



Ticket Object State Transition Diagram

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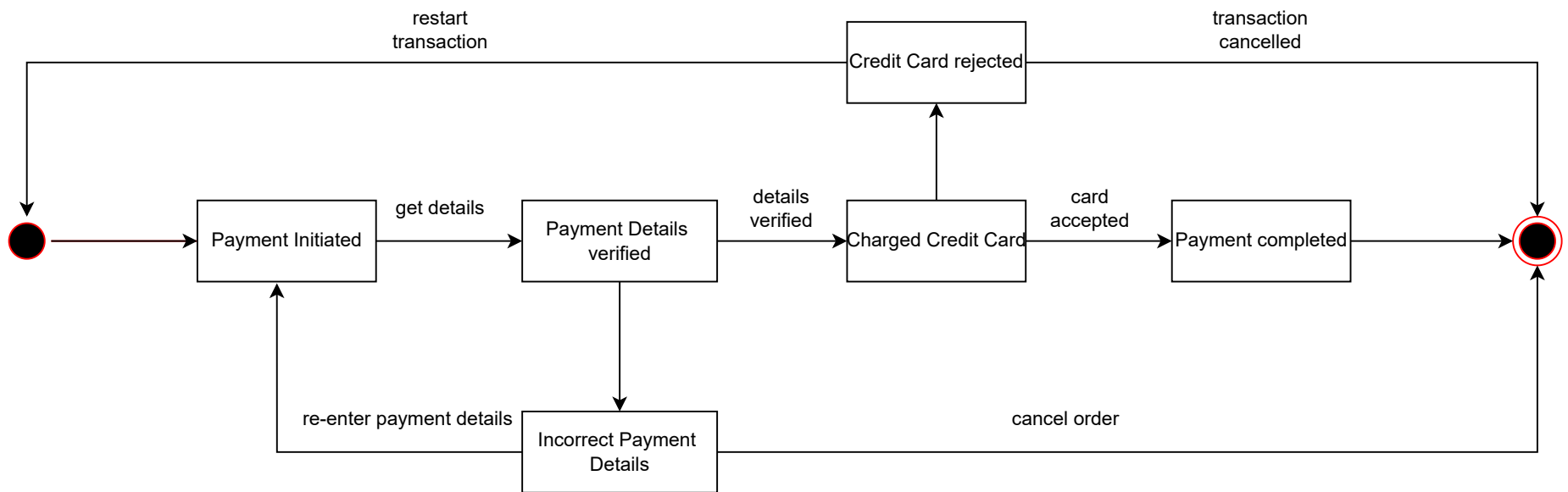
Mohammed Alhajjaj



State Transition Diagram

Payment

Steve Andersen



State Transition Diagram - Ticket Cancellation

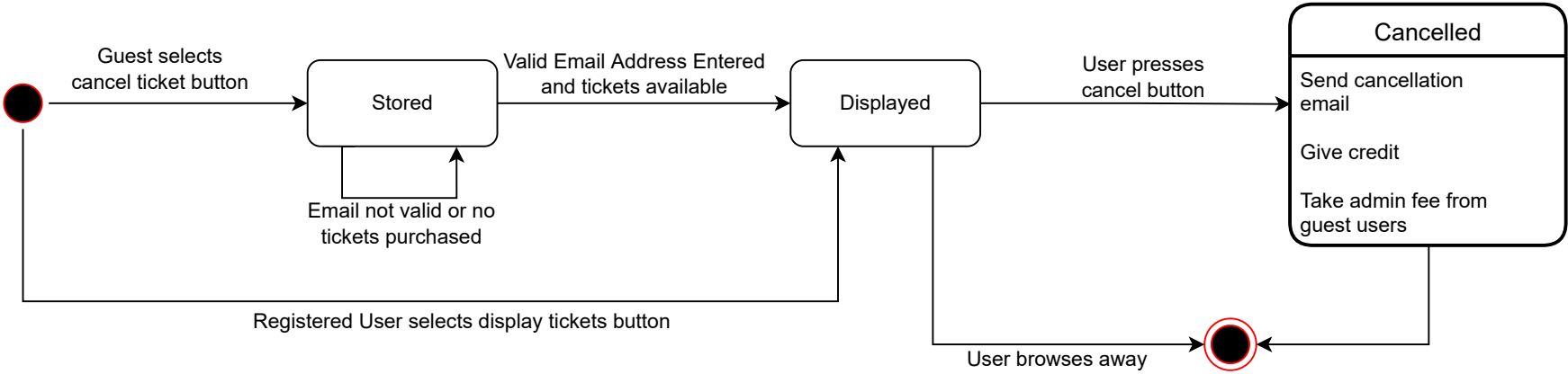
Movie Ticket Reservation App

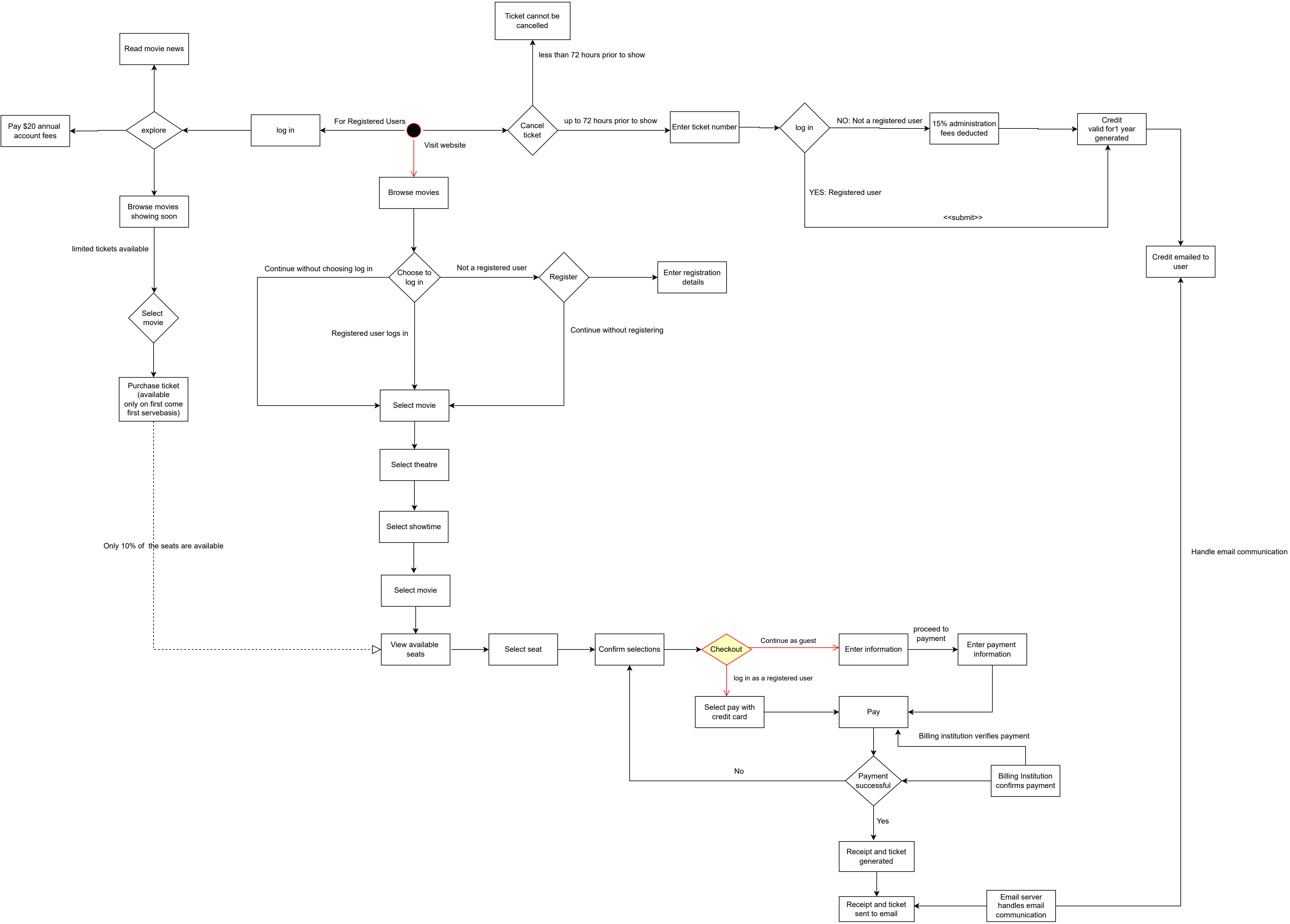
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*Please note that the states shown are for the ticket

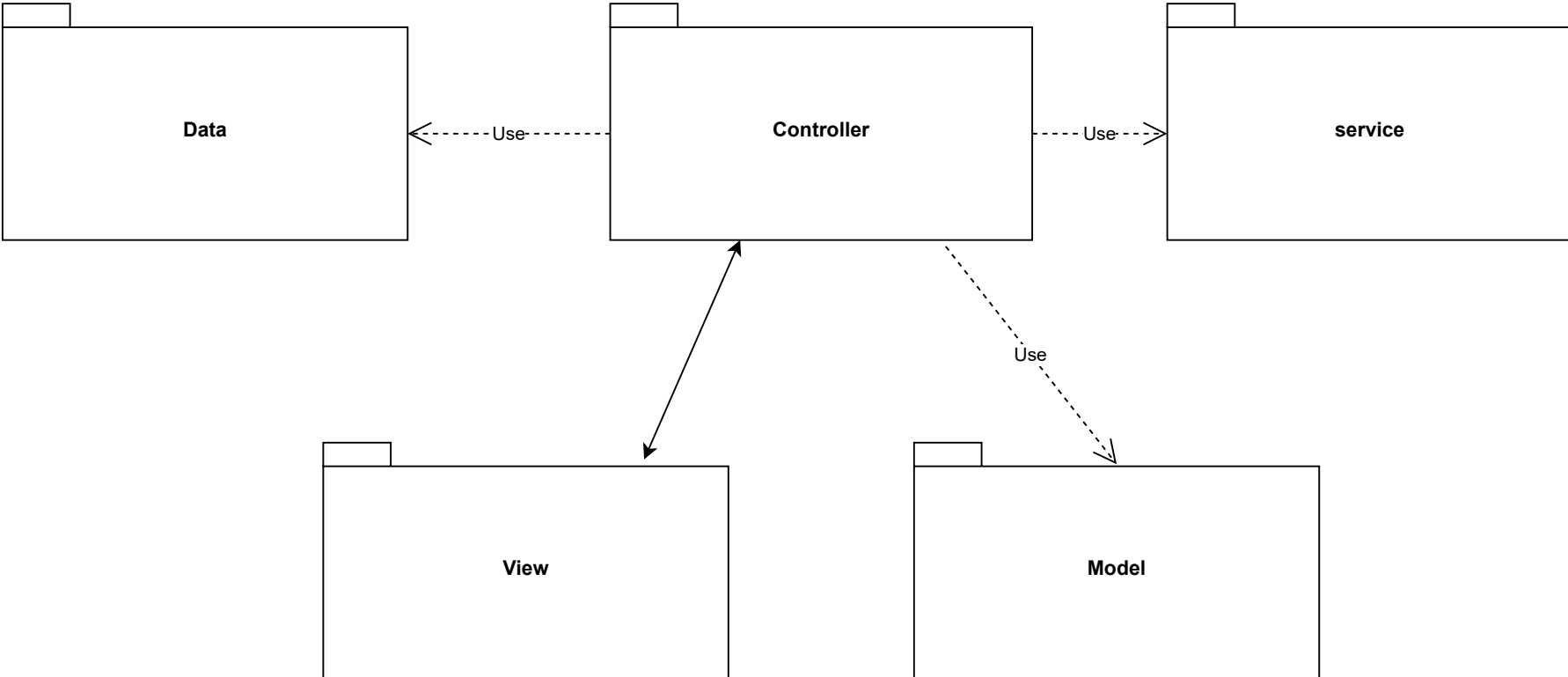




Package Diagram

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Deployment Diagram

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