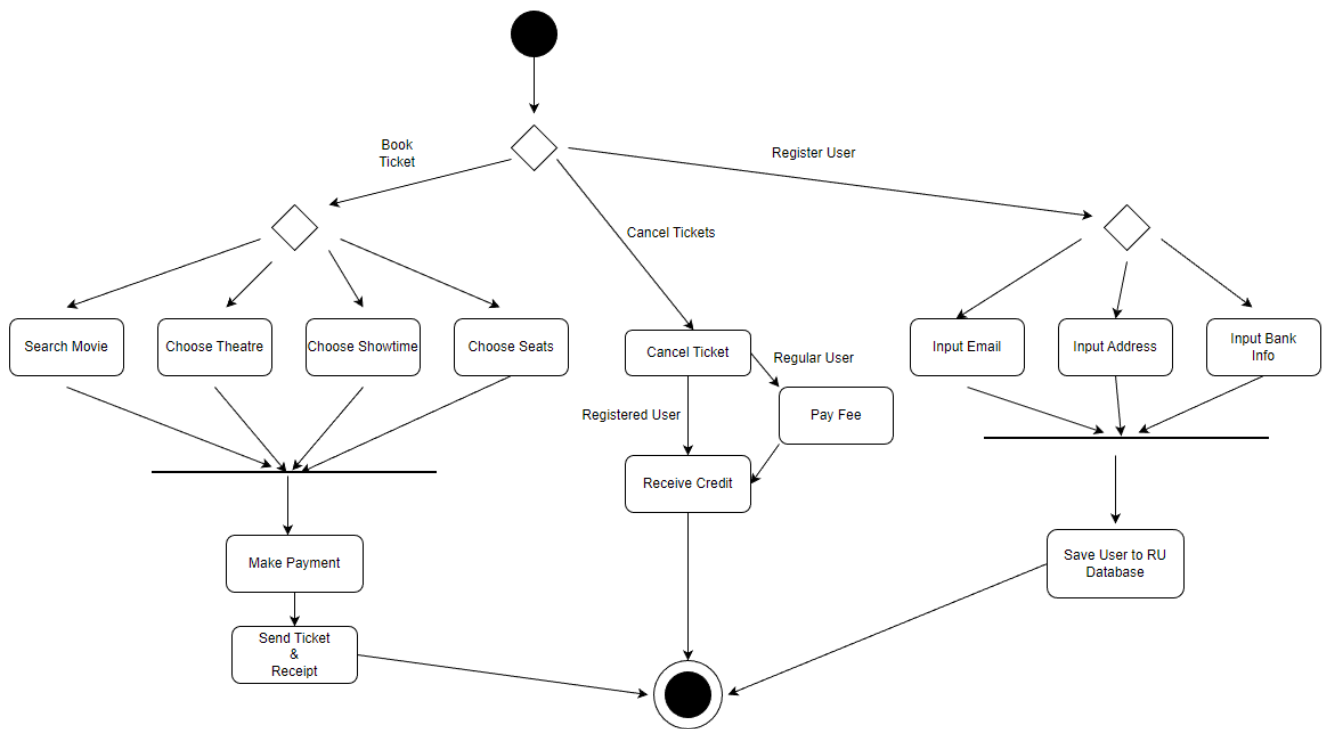


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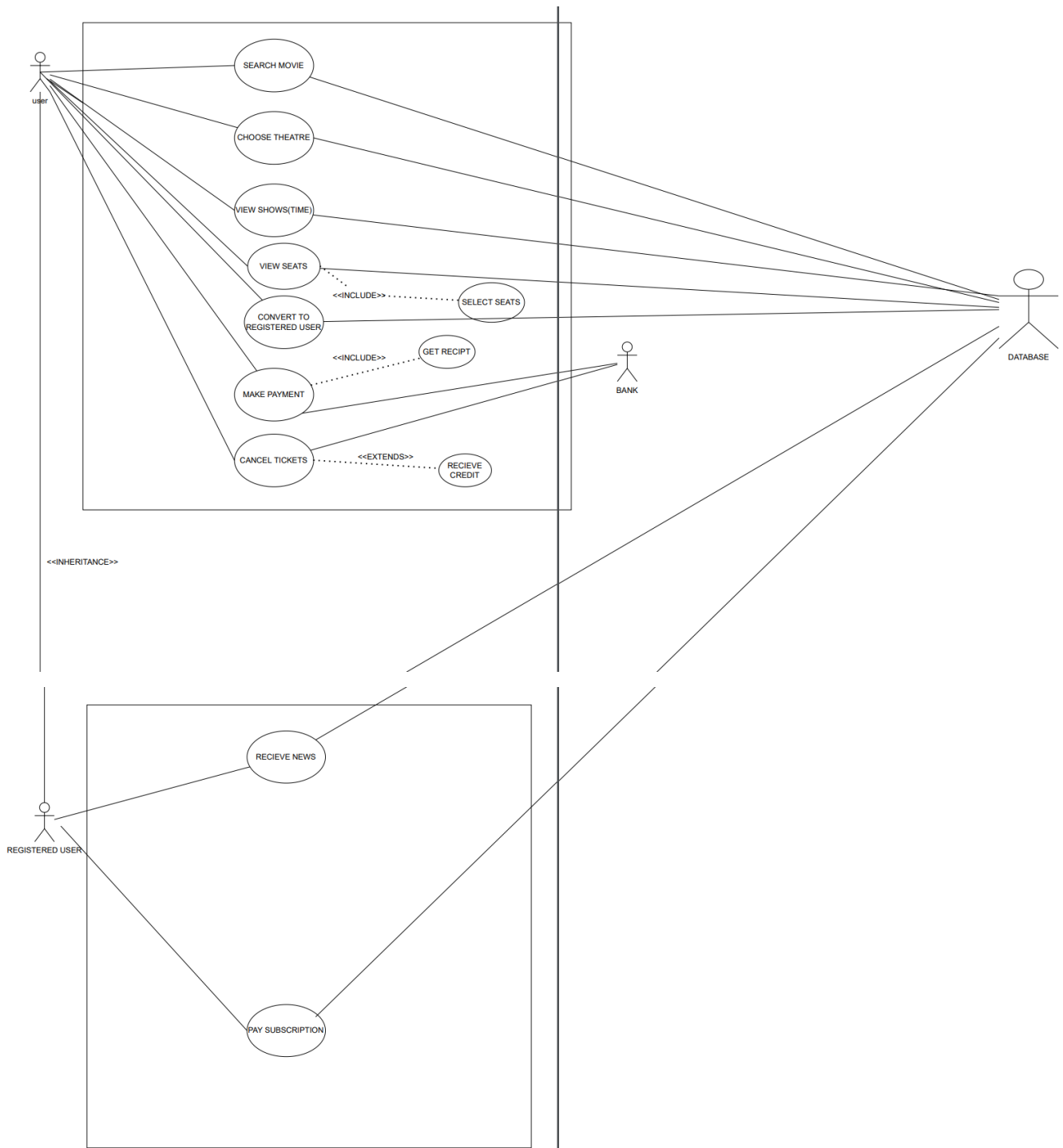
Daniel Le
Ethan Kerr
MD Shaherier Khan
Syed Mohammed Abbas Kazmi

Group 16
Dec. 5, 2022

Activity Diagram



Use Case Diagram



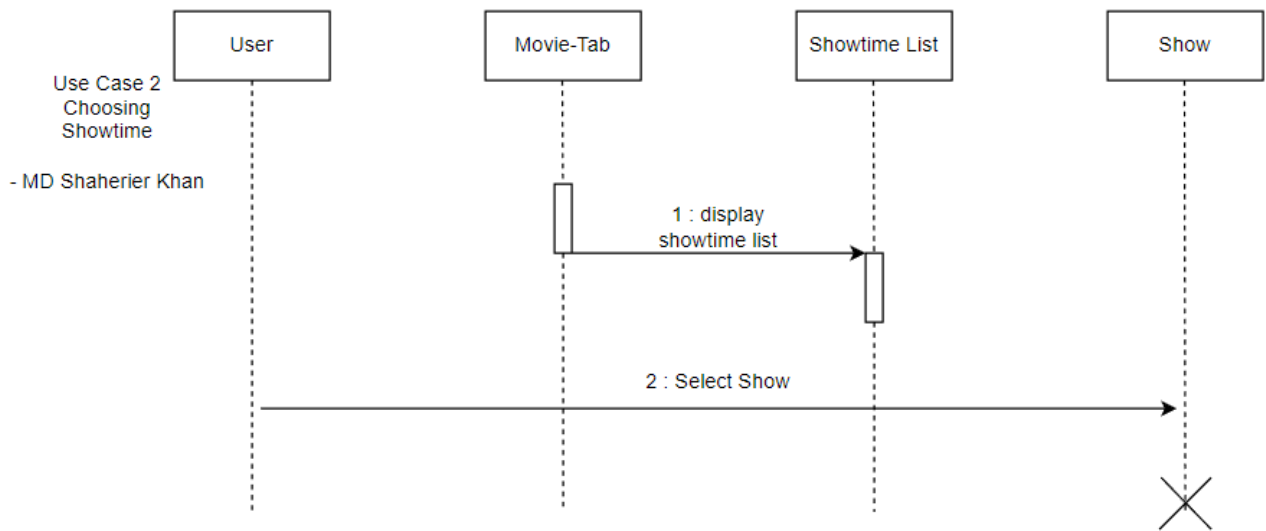
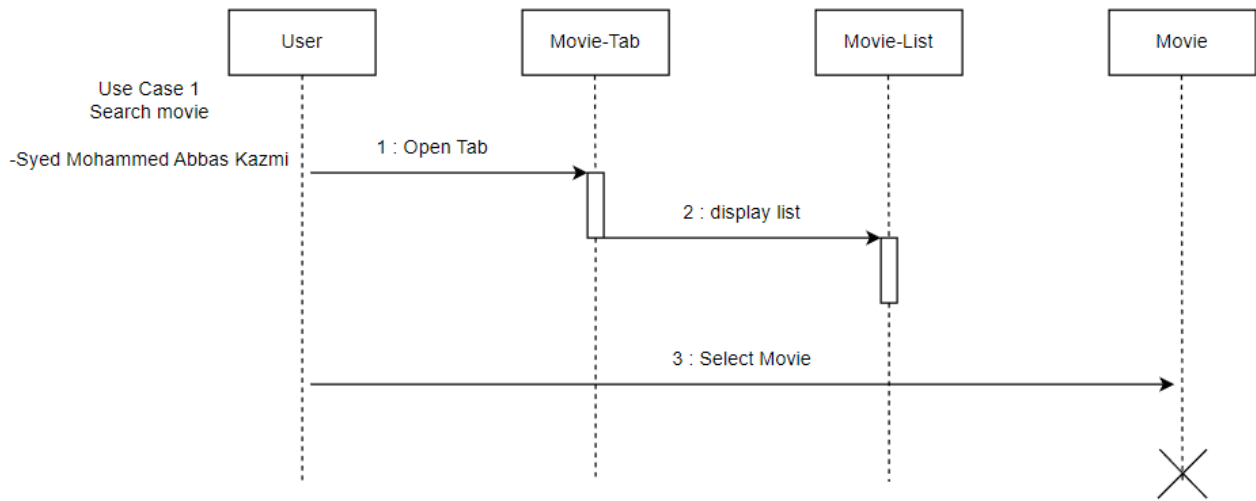
Scenarios

- 1) User selects the Movie Tab, then searches for a movie from the Movie List and selects the desired Movie.
- 2) User selects the available Showtime from the Showtime List displayed after selecting a Movie.
- 3) User selects the Theatre Tab and displays the Theatre List and selects a Theater.
- 4) User views the seats and selects the desired Seat from graphically displayed Seat Availability.
- 5) User makes a Payment using the Payment Tab and gets a Receipt and Ticket for the transaction via Email.
- 6) User cancels the Ticket he owns from the Cancel Tab and may receive Credit for it.
- 7) User selects the Register Tab, then inputs Email, Address, Debit/Credit Card Account to be saved as a Registered User.
- 8) A registered user pays the Subscription Fee using the Payment Tab.
- 9) Registered User receives News about the upcoming movies

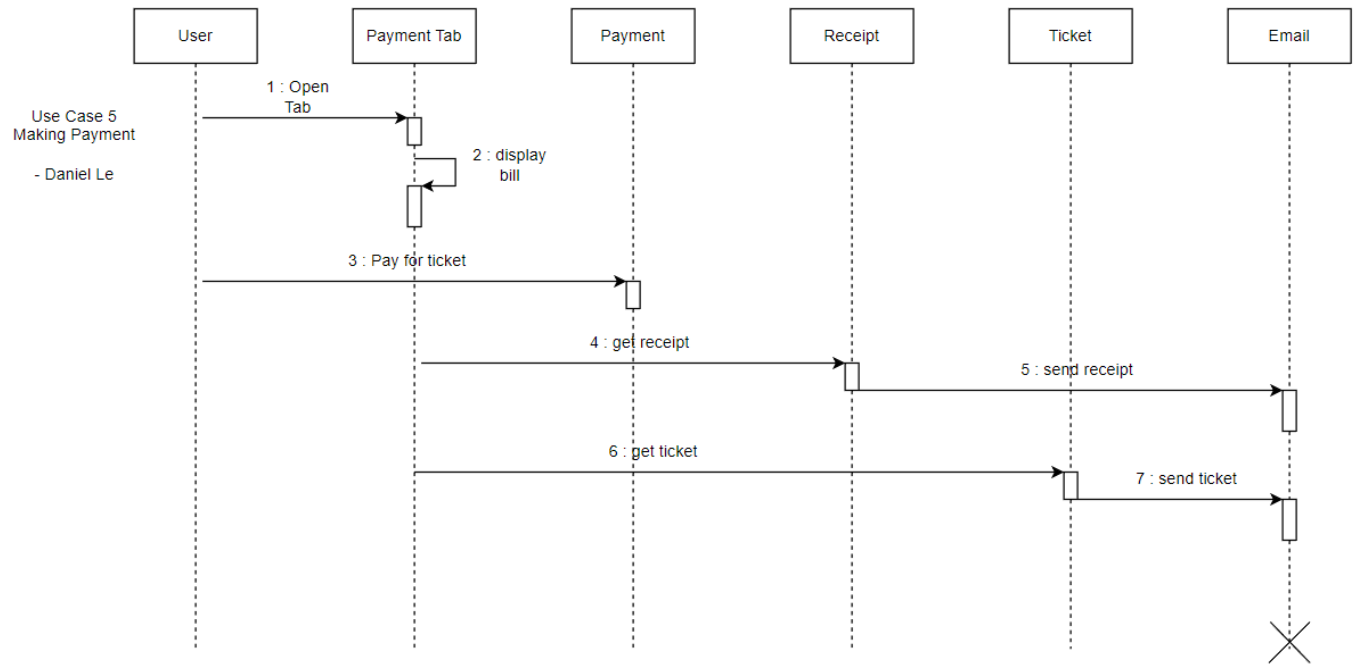
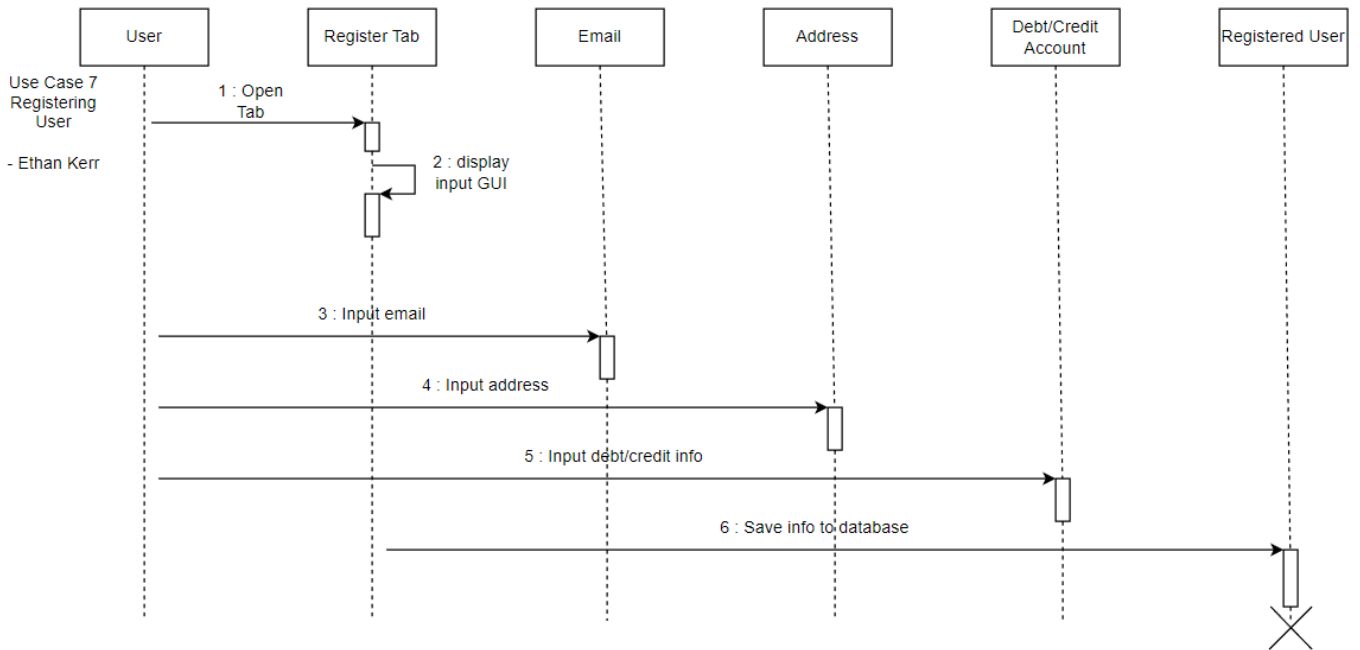
Objects:

- | | | |
|-----------------|---------------------|---------------------|
| - Movie Tab | - Seat | - Credit |
| - Movie List | - Seat Availability | - Register Tab |
| - Movie | - Payment | - Address |
| - Showtime | - Payment Tab | - Debit/Credit Card |
| - Showtime List | - Receipt | - Registered User |
| - Theatre | - Ticket | - Subscription Fee |
| - Theatre List | - Email | - News |
| - Theatre Tab | - Cancel Tab | |

Sequence/Interaction Diagrams

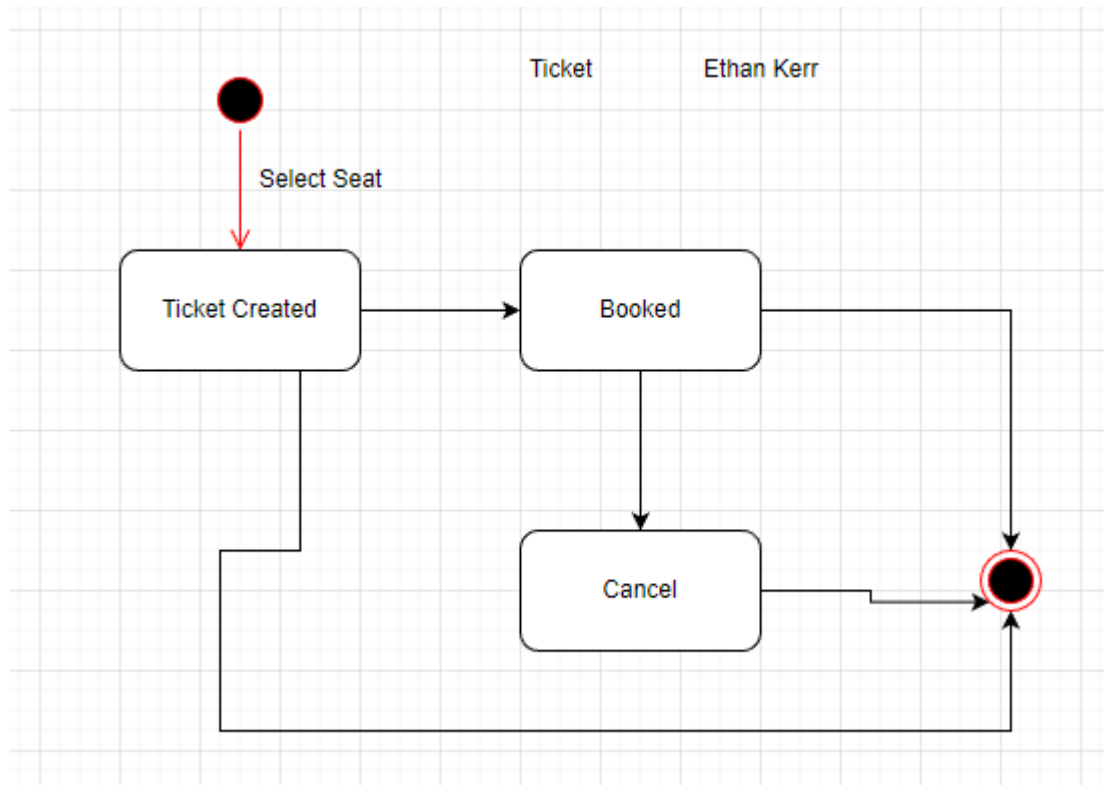


Sequence/Interaction Diagrams (cont.):

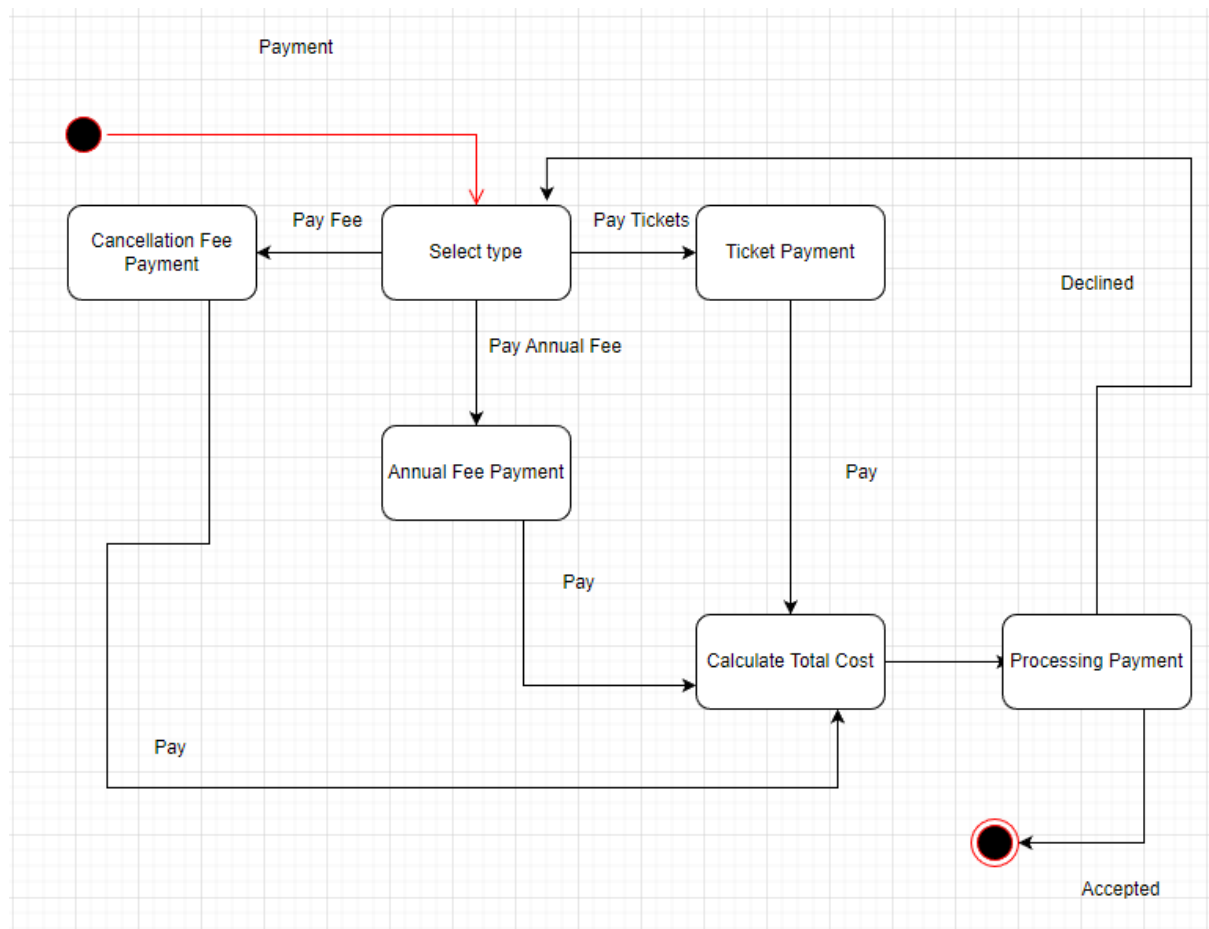


State Transition Diagrams:

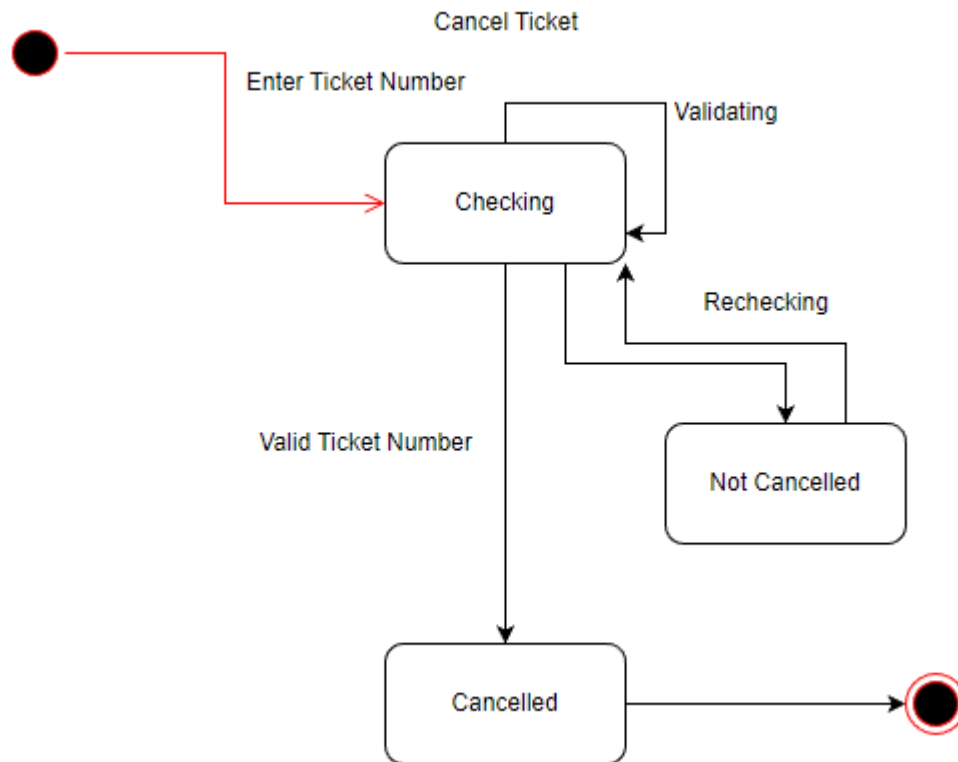
Ticket Object: (Ethan Kerr)



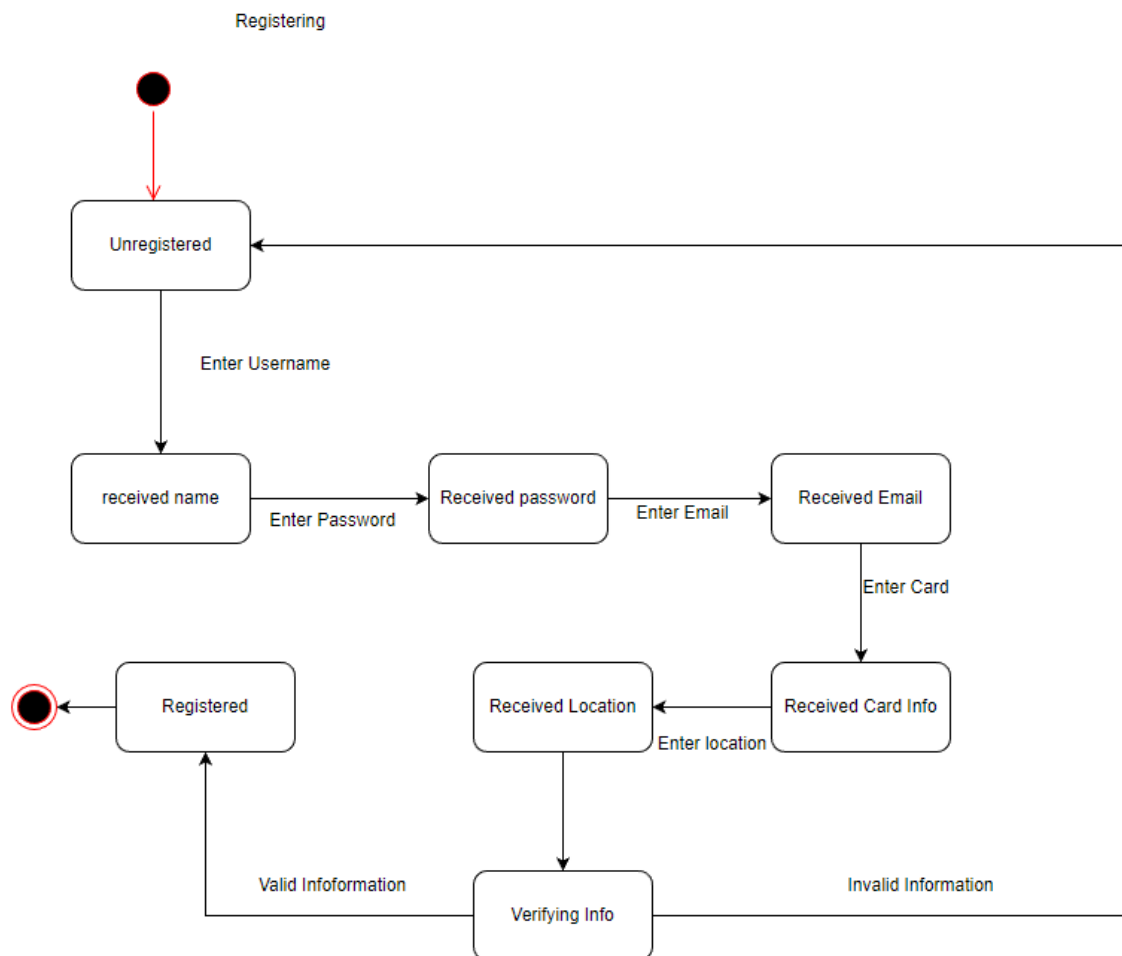
Payment Object: (Daniel Le)



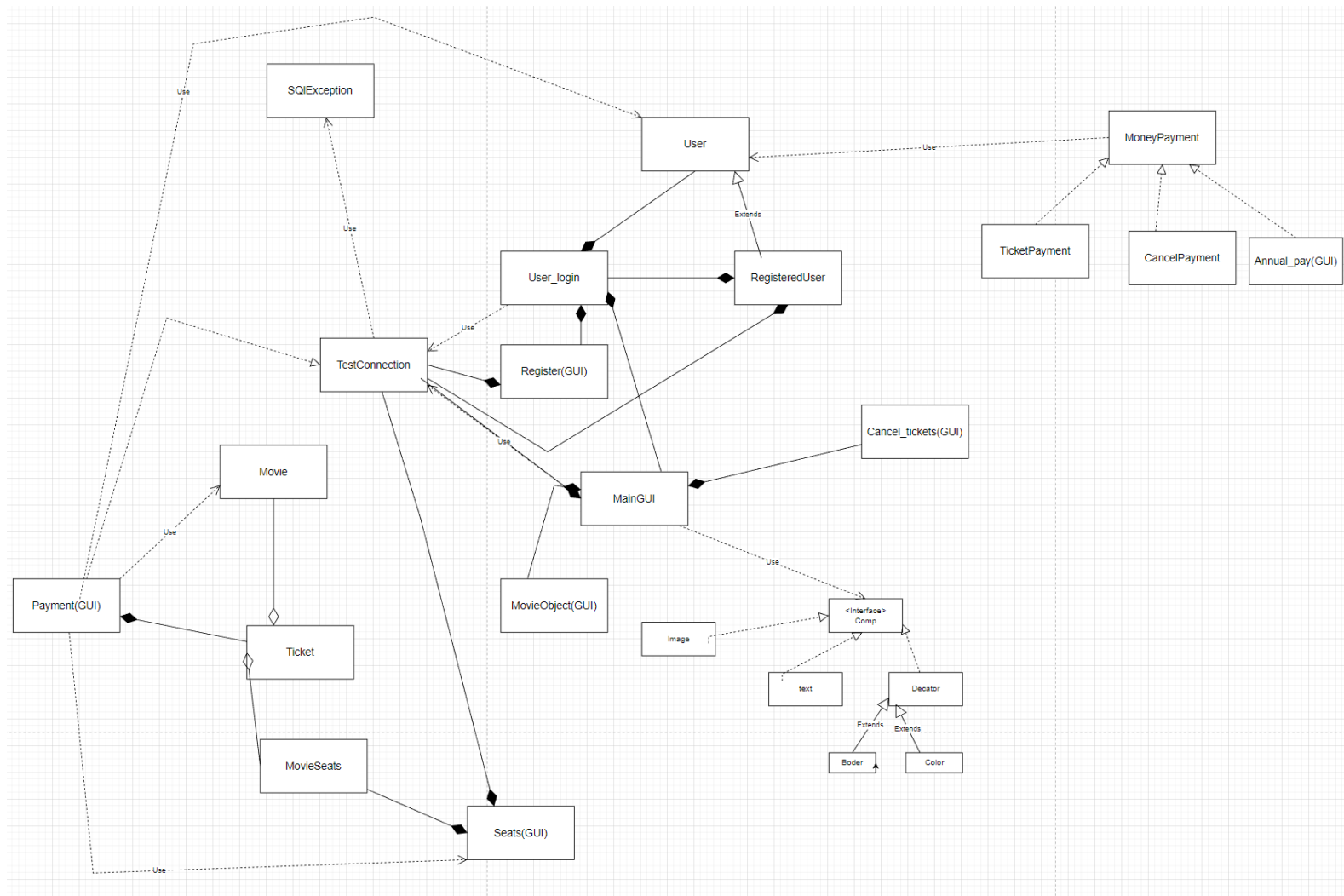
Cancel Ticket Object: (Syed Mohammed Abbas Kazmi)



Registering Object: (MD Shaherier Khan)

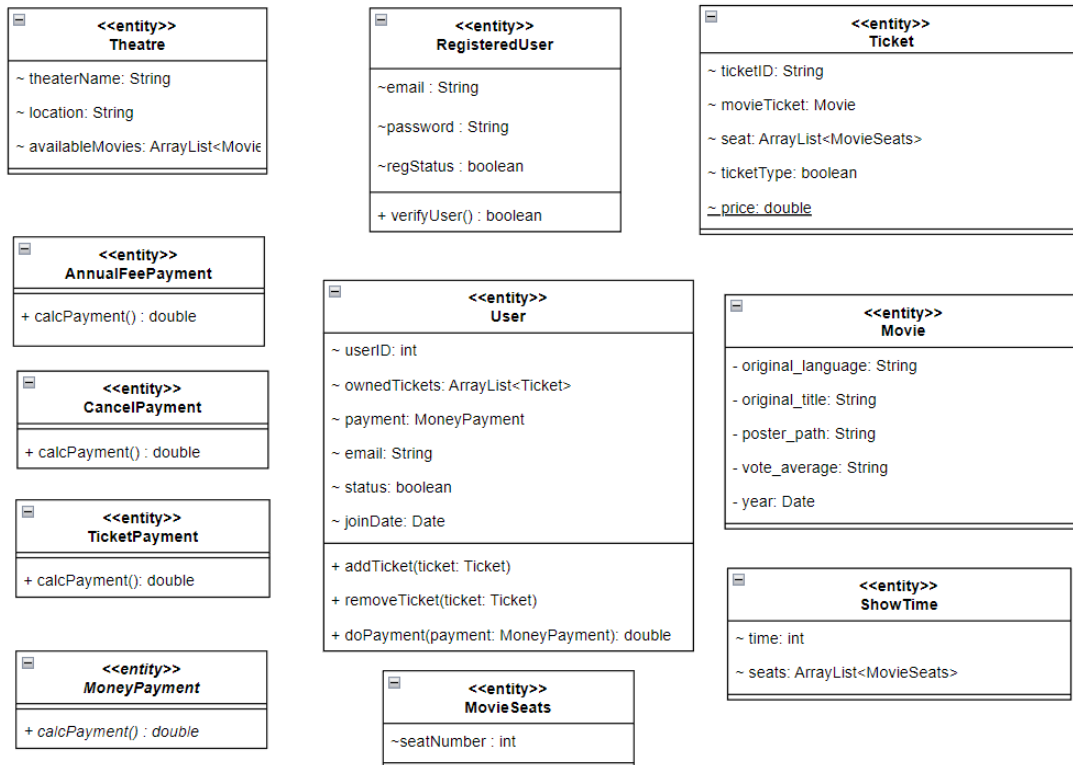


Class Diagram (Relationships):

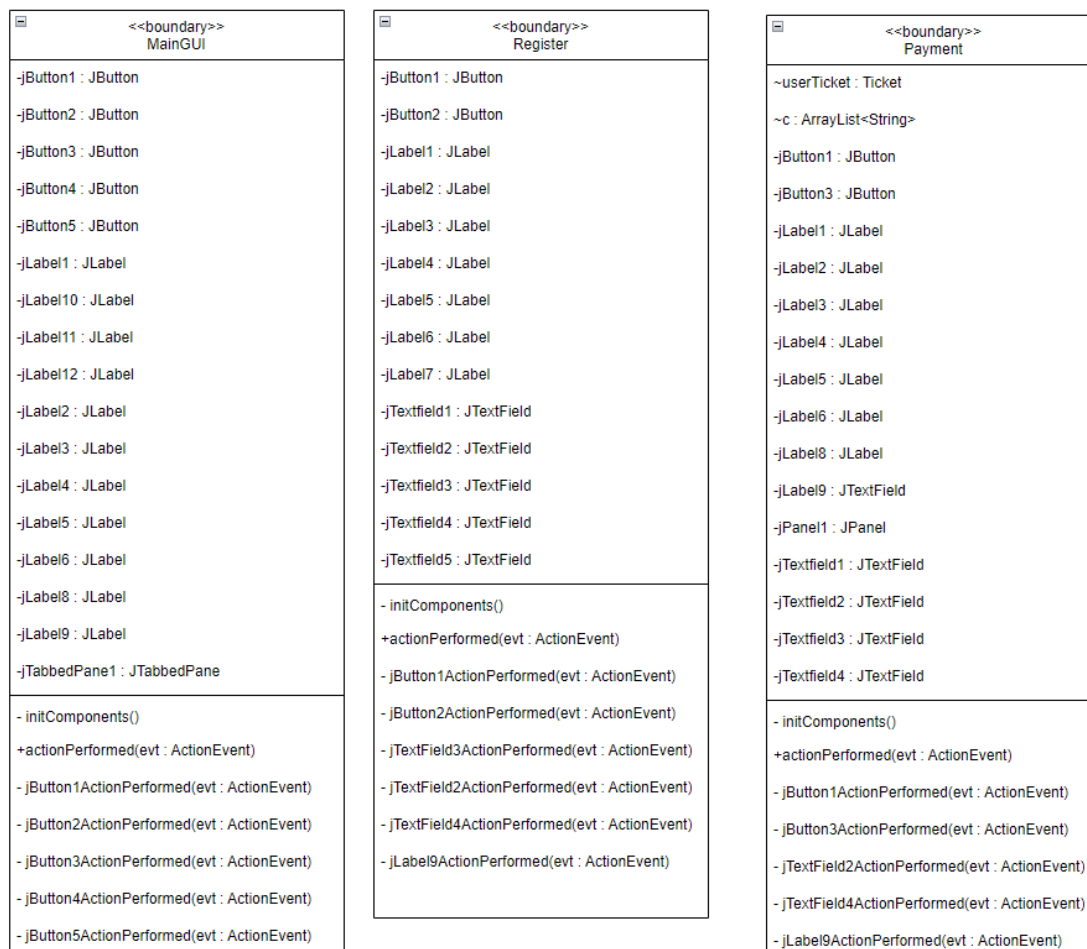


Class Diagrams (Attributes/Methods):

-Entity Classes:



-Boundary Classes:



| <div> <div></div> <div> <div><<boundary>></div> <div>Annual_pay</div> </div> </div> |
|--|
| <div> <div>-jButton1 : JButton</div> <div>-jLabel1 : JLabel</div> <div>-jLabel2 : JLabel</div> </div> |
| <div> <div>- initComponents()</div> <div>+ actionPerformed(evt : ActionEvent)</div> <div>- jButton1ActionPerformed(evt : ActionEvent)</div> </div> |

| <div> <div></div> <div> <div><<boundary>></div> <div>User_login</div> </div> </div> |
|--|
| <div> <div>+ currentUser: User</div> <div>- jButton1: JButton</div> <div>- jButton2: JButton</div> <div>- jButton4: JButton</div> <div>- jLabel1: JLabel</div> <div>- jLabel1: JLabel</div> <div>- jLabel2: JLabel</div> <div>- jLabel3: JLabel</div> <div>- jLabel4: JLabel</div> <div>- jLabel6: JLabel</div> <div>- jLabel7: JLabel</div> <div>- jLabel8: JLabel</div> <div>- jPasswordField1: JPasswordField</div> <div>- jTextField1: JTextField</div> </div> |
| <div> <div>- initComponents()</div> <div>- jButton1ActionPerformed(evt: ActionEvent)</div> <div>- jButton2ActionPerformed(evt: ActionEvent)</div> <div>- jButton4ActionPerformed(evt: ActionEvent)</div> <div>- jTextField1ActionPerformed(evt: ActionEvent)</div> <div>+ <u>main(args: String[])</u></div> </div> |

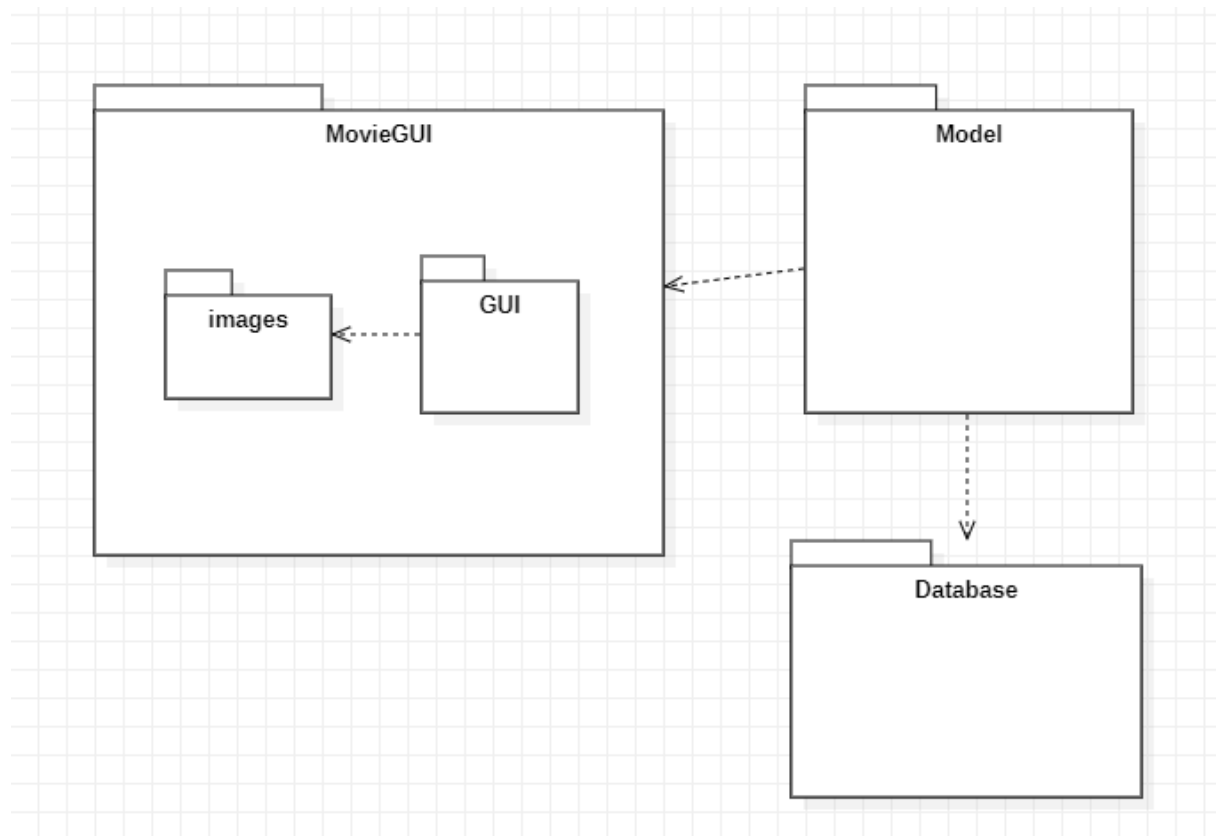
| <div> <div></div> <div> <div><<boundary>></div> <div>Cancel_tickets</div> </div> </div> |
|---|
| <div> <div>-jButton1 : JButton</div> <div>-jLabel1 : JLabel</div> <div>-jLabel2 : JLabel</div> <div>-jLabel3 : JLabel</div> <div>-jLabel4 : JLabel</div> <div>-jTextField1 : JTextField</div> <div>-jTextField2 : JTextField</div> </div> |
| <div> <div>- initComponents()</div> <div>+ actionPerformed(evt : ActionEvent)</div> <div>- jButton1ActionPerformed(evt : ActionEvent)</div> </div> |

-Controller Classes

| <div> <div></div> <div> <div><<Controller>></div> <div>TestConnection</div> </div> </div> |
|---|
| <div> <div>- myConnection: Connection</div> </div> |
| <div> <div>+ makeConnection(username: String, password: String)</div> <div>+ validateUser(email: String, password:String): boolean</div> <div>+ registerUser(username: String, password: String, location: String, email: String, cardNo: int, credit: int)</div> <div>+ addCredit(credit: int, email: String)</div> <div>+ bookSeat(seatNo: int, date: Date, email: String, showtime: String, movie: String, ticket: String)</div> <div>+ cancelTicket(ticket: String, email: String)</div> <div>+ getBookedSeats(showtime: String, movie: String, date: Date): ArrayList<Integer></div> <div>+ getMovieSummary(name: string): String</div> <div>+ getMovieYear(name: string): Date</div> <div>+ setJoinedYear(date: Date, email: String)</div> <div>+ getJoinedYear(email: String): Date</div> <div>+ getMovieLang(name: String): String</div> <div>+ getUrlImage(name: String): String</div> <div>+ getMovieRating(name: String): String</div> <div>+ <u>main(args: String[])</u></div> </div> |

| <div> <div></div> <div> <div><<Control>></div> <div>MovieObject</div> </div> </div> |
|---|
| <div> <div>~showdate : Date</div> <div>~showTime : String</div> <div>-jButton1 : JButton</div> <div>-jButton10 : JButton</div> <div>-jButton2 : JButton</div> <div>-jButton3 : JButton</div> <div>-jButton4 : JButton</div> <div>-jButton5 : JButton</div> <div>-jButton6 : JButton</div> <div>-jButton7 : JButton</div> <div>-jButton8 : JButton</div> <div>-jButton9 : JButton</div> <div>-jLabel1 : JLabel</div> <div>-jLabel2 : JLabel</div> <div>-jLabel3 : JLabel</div> <div>-jLabel4 : JLabel</div> <div>-jLabel5 : JLabel</div> <div>-jLabel6 : JLabel</div> <div>-jLabel7 : JLabel</div> <div>-jLabel8 : JLabel</div> <div>-jLabel9 : JLabel</div> </div> |
| <div> <div>- initComponents()</div> <div>+ actionPerformed(evt : ActionEvent)</div> <div>- jButton1ActionPerformed(evt : ActionEvent)</div> <div>- jButton2ActionPerformed(evt : ActionEvent)</div> <div>- jButton3ActionPerformed(evt : ActionEvent)</div> <div>- jButton4ActionPerformed(evt : ActionEvent)</div> <div>- jButton5ActionPerformed(evt : ActionEvent)</div> <div>- jButton6ActionPerformed(evt : ActionEvent)</div> <div>- jButton7ActionPerformed(evt : ActionEvent)</div> <div>- jButton8ActionPerformed(evt : ActionEvent)</div> <div>- jButton9ActionPerformed(evt : ActionEvent)</div> <div>- jButton10ActionPerformed(evt : ActionEvent)</div> </div> |

Package Diagram:



Deployment Diagram:

