**Use Case Scenarios**

**Below are use case scenarios for the use cases deemed most important by our group:**

**Select a Movie:**

John opens the movie app, and the system displays options to “Become a Registered User”, “Login” ,“Continue as Guest” or “Cancel Reservation”.

John logs in as a registered user or continues as a guest.

System moves to a page where there is a drop bar to Select from a Movie from movie titles

John picks “Black Panther” from the drop bar.

System moves to a theater selection page with a list of showings and theater locations.

John clicks showing “7:30pm West Hills Theater”.

The system movies to a seat selection page with an outline of open seats.

John selects seat “C4”. John can select multiple seats if he would like.

The system verifies the seat is available and if John is a registered user and has not booked more than 10% of the theater then system moves to the payment page.

**Make Payment:**

The payment page consists of reservation details such as movie/theater/showtime/seat and price.

The page has input fields for “Credit/Debit”, “Name on Card”, “Card No.”, “Card Expiration Month”, “CSV”, “email address”.

John enters in the input fields and presses “Process Payment”

The system verifies the information is valid.

The system moves to a confirmation page with a unique receipt, movie tickets and a confirmation message saying an email receipt was sent.

**Cancel Tickets:**

John opens the movie app and the system displays options to “Become a Registered User”, “Login” ,“Continue as Guest” or “Cancel Reservation”.

John selects the “Cancel Reservation” button.

The system moves to a cancellation page with the with an input field asking for “Receipt ID”.

John enters in his unique Receipt ID and selects a “search” button.

The system looks for the Receipt ID and displays the receipt information on the page. If no such ReceiptID exists, system displays an error message “No such ReceiptID exists”.

John then selects the confirm cancellation button on the screen.

The system verifies that it is not within 72hrs of the showing, then contacts the financial institution to distribute a refund and sets the selected seats on the receipt to Available from Unavailable.

The system moves to a confirm cancelation page with the cancellation details.

**Register User:**

John opens the movie app and the system displays options to “Become a Registered User”, “Login”, “Continue as Guest” or “Cancel Reservation”.

John clicks a button labeled “become a registered user”.

The system goes to a page with input fields for “First Name”, “Last Name”, “DOB”, “Email” and “Password”

John puts “John”, “Smith”, “11-11-1995”, “JohnS@Smith.com”, “JSmith” into the field.

Once the fields are filled in the John selects a button to “register”

The system checks that the email is valid and not used by another user and all the fields are valid.

The system goes to a confirmation page confirming successful registration.

**Login:**

John opens the movie app and the system displays options to “Become a Registered User”, “Login”, “Continue as Guest” or “Cancel Reservation”.

John selects the “Login” option.

The system goes to a credential page that asks for email address and Password and has a login button.

John enters: “JohnS@Smith.com”, “JSmith” and presses the login button.

The system verifies that the information is a valid entry or shows error message “User not Found” if not.

The system moves to the search movie screen.

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| **Noun** | **Filtering Decision** |
| John | Candidate Object (user) |
| First Name | Filtered (attribute of user) |
| Last Name | Filtered (attribute of user) |
| DOB | Filtered (attribute of user) |
| Email | Filtered (attribute of user) |
| Password | Filtered (attribute of user) |
| Movie | Candidate Object |
| Black Panther | Candidate Object |
| West Hills Theater | Candidate Object |
| Showing | Candidate Object |
| 7:30 pm showtime | Candidate Object |
| Theater | Candidate Object |
| Seat | Candidate Object |
| Seat C4 | Candidate Object |
| Ticket | Candidate Object |
| Receipt | Candidate Object |
| Credit/Debit | Filtered (attribute of user) |
| Name on Card | Filtered (attribute of user) |
| Card No. | Filtered (attribute of user) |
| Card Expiration Month | Filtered (attribute of user) |
| CSV | Filtered (attribute of user) |
| Error message | Filtered (communication to user) |
| Confirmation message | Filtered (communication to user) |
| Receipt ID | Filtered (attribute of user) |
| Open seats | Filtered (attribute of Seat) |