

Use case diagram and description

Movie ticket booking system, Project 2 Part 1

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Login case

{input info}

- (1) User inputs their registered email and password.

{input validation}

- (1) The information will be validated.

{login successful}

- (1) A toast is prompted telling the user that the login was successful.
- (2) The user will be redirected to the book ticket intent.

Login case error, alternative flow and exception handling

{input info}

- (1) If the user cancels the login process they are returned to the start intent of the app.

{input validation}

- (1) If the password or email is incorrect on submission, the user will be prompted with a toast telling the user that email or password is not correct.
- (2) If more than 5 login attempts have failed on an email that is in the system, the user will be prompt that there has been sent an email to them with a password reset link.

Create account case

{Input info}

- (1) User inputs information in corresponding input fields and submits the form:
First name, Last name, birthdate, email, password, phone number and payment information.

{validation}

- (1) Birthdate is validated to check if the user is the right age.
- (2) Email is validated, checks if the email is not in the system already.
- (3) Password is validated, checks if it meets all the set requirements.
- (4) System sends the card information to the bank computer to confirm that the card is valid and active

{signup successful}

- (1) If all requirements are met, the user is prompt with a toast telling them that the signup was successful.
- (2) The database will update with the user information.
- (3) The user is redirected to the login intent.

Signup case error, alternative flow and exception handling

{input info}

- (1) If the user cancels the signup process, they will be returned to the start intent of the application.

{input validation}

- (1) The user is not old. If the user is not over the set age, they will be prompted in a message that they are not old enough.
- (2) If the email is already in the system, the user will be prompted with a toast saying that the email is already in the system.
- (3) If the password does not meet the requirements for uppercase letters, numbers and special characters they will be prompted with a toast saying that the password has to meet the set requirements.
- (4) If the payment information is invalid the user will be prompted with an error telling the user that the payment information is not correct and asked to try again.

Book ticket

{select movie}

- (1) User is prompted with a list of movies to select from.
- (2) User selects a movie and is prompted to the select screening time intent.

{Select screening}

- (1) User is shown a calendar for the current month with marked areas with days when the chosen movie is screening.
- (2) When clicking on a day, the user is shown at what hours the movie is screening.
- (3) User clicks on a screening hour
- (4) User is redirected to new intent showing all available seats at that screening hour.

{choose seat}

- (1) The choose seat intent shows a layout of the cinema screening room the available seats highlighted. The user can select multiple seats that are available
- (2) When an available seat has been selected the user can choose to go to payment or back to select movie, the current tickets will be put into a basket and a price will be calculated.
- (3) The user can choose to pay now or browse more movie screenings.
- (4) If user selects browse more movies, they are redirected to the movie screening list intent.
- (5) If the user selects pay now, they are redirected to the payment intent.

Book ticket error, alternative flow and exception handling

{select screening}

- (1) User clicks on a screening with no available seats.
- (2) User is prompt with a toast saying that there are no available seats at this screening.
- (3) The user chooses to cancel the booking prosses, the user will be prompted a message asking if they are sure, if so they will be redirected to the movie list intent.

{select seat}

- (1) If the user tries to select an unavailable seat they are prompted with a toast that that seat is already booked by someone else.

Movie ticket booking

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