# **Use Case Diagram for Acmeplex**



#### **AcmePlex Ticket Reservation Use Cases Scenarios**

# **Ordinary User Scenarios**

#### Search for a Movie

For the "Search for a Movie" use case, the <u>AcmePlex application</u> displays a <u>search bar</u> where the user can <u>enter</u> the <u>movie title</u>. Once the user submits the search, the <u>system retrieves</u> a list of matching <u>movies</u>, including their name and available showtimes, and <u>displays</u> them for the user to select from.

#### **Select Theater and Showtimes**

For the "Select Theater and Showtimes" use case, the AcmePlex application allows the user to select a <u>movie</u> from the <u>search results</u>. The <u>system</u> then <u>displays</u> a list of available <u>theaters</u> along with the <u>showtimes</u> for the selected movie. The user <u>chooses</u> their preferred theater and showtime, and the system <u>confirms</u> the selection and <u>highlights</u> the choice for further actions.

#### View Available Seats

For the "View Available Seats" use case, the AcmePlex application <u>displays</u> a <u>graphical seat layout</u> for the selected theater and showtime. The seat layout includes <u>markers</u> for <u>available</u> and <u>reserved</u> seats, represented by distinct colors. The user can visually <u>browse</u> the layout to check seat availability before proceeding.

#### **Select Seat**

For the "Select Seat" use case, the AcmePlex application allows the user to <u>click</u> on one or more <u>available</u> <u>seats</u> from <u>the graphical seat layout</u>. The system <u>highlights</u> the selected <u>seats</u> and <u>displays</u> the <u>total price</u> for the selection. It then prompts the user to <u>confirm</u> their seat choice before moving to the payment step.

### **Make Payments**

For the "Make Payments" use case, the AcmePlex application displays a <u>payment form</u> where the user is prompted to <u>enter</u> their <u>credit card number</u>, <u>expiry date</u>, and <u>CVV</u>. After the user submits the payment information, the system <u>processes</u> the transaction securely. Upon success, the system displays a confirmation message and provides the transaction details for the user.

#### **Receive Ticket and Receipts**

For the "Receive Ticket and Receipts" use case, the AcmePlex application <u>generates</u> a <u>digital ticket</u> and receipt after a successful payment. The user can either <u>download</u> the ticket and receipt directly from the <u>application</u> or <u>request</u> them to be sent via email. The system ensures the ticket and receipt are available for future reference.

#### **Cancel Ticket**

For the "Cancel Ticket" use case, the AcmePlex application allows the user to <u>enter</u> a previously booked ticket for cancellation. Upon confirmation, the system deducts a 15% <u>administrative fee</u> and processes the refund for the remaining amount. The user is <u>notified</u> of the <u>cancellation and refund status</u> via a confirmation message.

#### **Registered User Scenarios**

#### **Pay Annual Fee**

For the "Pay Annual Fee" use case, the AcmePlex application displays the "Pay Annual Fee" section to the user, with the default annual fee pre-filled. The user is prompted to enter their payment details, including the credit card number, expiry date, and CVV. Once the user submits the information, the system securely processes the payment, confirms the transaction, updates the user's registered status, and generates a receipt that is available for download or sent via email.

#### 10% Reservation

For the "10% Reservation" use case, the AcmePlex application allows <u>registered users</u> to <u>reserve seats</u> from a 10% reserved allocation before public bookings open. The system <u>checks</u> availability within the <u>reserved quota</u> and <u>confirms</u> the reservation for the user. If the <u>reserved quota</u> is full, the system <u>notifies</u> the user and provides alternate <u>suggestions</u>, such as other seats or showtimes.

# **All Ordinary User Actions**

For the "All Ordinary User Actions" use case, registered users can perform all actions available to ordinary users, such as searching for a <u>movie</u>, <u>selecting seats</u>, and <u>making payments</u>. However, they are exempt from the 15% <u>administrative fee</u> when canceling tickets, giving them an added benefit.

# Common Scenario for both users:-

#### **Contact Us**

For the "Contact Us" use case, the AcmePlex application provides a <u>contact form</u> where <u>users</u> can <u>enter or</u> their queries or concerns. The user is prompted to fill in details such as their <u>name</u>, <u>email address</u>, and <u>message</u>. Once the user submits the form, the system <u>sends</u> the message to the <u>customer support team</u> and <u>displays</u> a confirmation message, indicating that <u>the support team</u> will respond promptly. Additionally, the user receives an <u>acknowledgment email</u> with a <u>reference ID for</u> tracking their inquiry.

#### **Good Candidates Identified**

# **Candidate Objects:**

The following key entities were identified as good candidates for objects:

- Ordinary User, Registered User
- Search Bar, Graphical Seat Layout
- Movie, Showtime, Theater, Seats
- Payment Form, Credit Card Details (e.g., Card Number, Expiry Date, CVV)
- Ticket, Receipt
- Contact Form, Name, Email Address, Message
- Administrative Fee, Reference ID

# **Candidate Operations:**

The following actions were identified as good candidates for operations:

- search, select, browse
- highlight, confirm
- enter, process, retrieve, notify
- display, generate, store, download
- cancel, suggest, send

# **Notation Used**

Single underline (e.g., Object Name): Represents candidate objects.

Double underline (e.g., Operation Name): Represents candidate operations.