

Use-Case Scenarios

Note:

Due to the limitations of the text editor used, **bolded** text has been utilized in place of a double underline for **operations**. A single-line underline is used to indicate objects.

Use-Case: Guest Login

John **selects** to continue as a guest. The terminal **prompts** him to enter his email address. John **enters** his email address into the terminal.

Use-Case: Registered User Login

Jen **selects** to login on the terminal. The terminal **prompts** Jen to enter her Registered User credentials. Jen **enters** her email address and password in the specified fields and the terminal **passes** the credentials to the database to Jen **validate** her Registered User account. The terminal **displays** a message indicating if the login attempt was successful or not.

Use-Case: Select a Theatre

John **selects** the 'Select a Theatre' option on the terminal. The terminal **retrieves** the list of available theatres from the database and **displays** them for John. John **selects** the desired theatre from the options and the terminal then **retrieves** the given theatre information from the database (i.e. available movies at the given time) and **displays** it.

Use-Case: View showings and available seats

After John has **selected** a theatre and a movie, a corresponding list of available showtimes is **pulled** from the database and **presented** on the terminal as a list. John **selects** the showtime he wants in the terminal. The corresponding seats are **pulled** from the database and **shown** on the terminal graphically, with indication to which ones are available. John **selects** the seat(s) he wants and **continues**.

Use-Case: Search for a Movie

John **inputs** the name of the movie he is searching for into the terminal. The terminal **retrieves** the list of movies that match the entered name from the database and **displays** them for John. John **selects** the desired movie from the options **displayed** on the terminal.

Use-Case: Buying a ticket

John wants to **purchase** a movie ticket, on the terminal, John **logs into** his registered user account by **providing** his email and the correct corresponding password.

John **browses** available movies and **searched** for movies until his desired movie has been found.

Then John **selects** their desired movie's showing and seat(s) from the terminal. The terminal will then **send** this section to the database to **verify** the seats are available. After they are **verified** the ticket order will be sent to the transaction system.

The transaction system **determines** the cost of the transaction. The transaction system **sends** this information to the terminal. The terminal then **presents** this payment cost to John. The user **enters** their payment information into the terminal. The terminal **sends** this information to the transaction system which then **verifies** the transaction. After verification the transaction system **sends** this verification to the terminal, which then **displays** the verification to John.

Use-Case: Cancel previously purchased ticket

John **selects** to 'cancel ticket purchase' on the terminal. The terminal **accesses** the database to **search** for previous transactions tied to John's email that are still active(movie showing has not yet happened). The database **returns** these transaction items to the terminal. If one or more transactions have been returned, the terminal **displays** the options to John, else it **displays** an error message, "No tickets available to cancel". John **selects** the transaction of purchased tickets he wishes to cancel from the displayed options on the terminal. The terminal then **checks** the database for if John is a Registered User. If John is registered, the terminal

compares the movie showing date/time to showing date/time of the ticket in question. If the difference in time is greater than 72 hours, the terminal **alerts** the billing system to refund John's account with a movie credit equal to 100% of the initial purchase cost. If however the difference in time is less than 72 hours, the terminal **displays a message** stating no refund will be given.

If John is not a Registered User, the terminal **compares** the movie showing date/time to showing date/time of the ticket in question. If the difference in time is greater than 72 hours, the terminal **alerts** the billing system to refund John's account with a movie credit equal to only 85% of the initial purchase cost (taking a 15% administration fee). If, however, the difference in time is less than 72 hours, the ticket the terminal **displays a message** stating no refund will be given.

The terminal performs the appropriate refund action based on the user type and the time of cancellation, and **displays** a message to John signifying successful cancellation of the transaction, as well as **sends** a confirmation of cancellation email to John via email.

Use-Case: Receive Movie Announcement

The Theatre Company **creates** an announcement for a movie. The Theatre Company **sends** the announcement through their email provider to all registered users. John, a registered user, **receives** an email with the announcement. After some time, the Theatre Company **posts** the announcement to the terminal for the public.

Use-Case: Email Ticket/Receipt

The transaction system **assesses** the payment made by John as complete. The transaction system **notifies** the terminal, and the terminal **generates** a copy of the ticket(s) purchased and transaction receipt for the purchase. The terminal then **retrieves** John's email address. The terminal then **sends a copy** of the transaction receipt to John's email address. The transaction is **stored** for transaction history purposes in the database.

Use-Case: Pay Annual Fee

Each registered user account must provide payment for an annual fee to receive membership benefits. Upon registering for an account, the user is **prompted** to make a payment for the annual fee. The terminal **determines** the cost of this transaction then **presents** this cost to the user. Since the user's payment information is **saved** in the registration process, the terminal will **prompt** the user to agree to the billing and subscription of the annual fee. Upon user approval, the terminal **sends** the transaction information to the transaction system which then **verifies** the transaction. The user is **notified** of the transaction's status.

The annual fee reoccurs once every year automatically, billed to the payment information the user registered with.

If the payment method becomes invalid due to expiration, the registered user account will not be deleted, but the account will not receive the associated benefits until a payment is made or the payment method is updated.

Use-Case: Register a User

A user who does not have a registered account with the theatre wants to become a registered user, on the homepage of the terminal, he selects "**Register for an account**", the terminal then **initiates** the registration process.

The user is **prompted** to **enter** his email, password, name, address, and payment information in sequence, once the information **entered** are deemed valid, a registered user account is **created**, the information of the registered user account is **added** to the registered user database.

The user is then prompted to make a transaction for the annual membership fee, once **payment is made** by the user, the transaction is complete, and the user's status changes to paid.

The user is then **shown** a completion message.

Use-Case: Send and Receive Data

After a user **performs** an operation at the terminal, the terminal **sends** a request to the database. The database **creates, updates, deletes, or queries** data based on the request it **received** from the terminal. The database **sends** back any requested data to the terminal.