

Team 15

A) Discuss the division of labor specifying who did what and why this is a fair and equal split

We try to split the work into equal half by taking the responsibility of working on the servlet for 5 JSP pages each. This is a fair split because we each have 5 jsp and respective servlet to work and we had prior knowledge of the jsp page we work on from assignment 1.

B) Explanation of status and stopping point, if incomplete (individual).

There is no stopping point because we finished the assignment.

C) Explanation of additional features, if any. (individual)

After canceling an item from the order, the sum of the order is recalculated again to reflect the correct price.

D) Discuss what was easy with the assignment and what was challenging. How did you overcome all or some of the challenges? (team)

It was challenging to work with eclipse, tomcat, and git. We spent countless hours to fix issues with pulling code from GitHub to eclipse without error. Merging and fixing conflicts especially wasn't an easy task in eclipse.

Programmer's manual
Concert Web Application Programmer Notes

2/21/19

This document contains the Programmer Notes for "Ticket Purchasing Web Application"

Folder: Root Folder	5
Folder: WebContent	5
CustomerHomePage.jsp	5
ConcertSearchResults.jsp	5
ConcertDetailsSelection.jsp	6
ViewAndCheckoutShoppingCart.jsp	6
CustomerTransaction.jsp	6
CustomerTransactionConfirmation.jsp	6
ViewOrders.jsp	7
ManageOrder.jsp	7
CancelOrder.jsp	7
CancellationConfirmation.jsp	8
CustomerTransaction.jsp	8
CustomerReviewConfirmation.jsp	8
Folder: model	8
Users.java	8
Folder: servlet	9
Login.java	9
Register.java	9
Logout.java	9
CancelOrder.java	9
CancelOrderInfo.java	9
ConcertSearchResult.java	10
CustomerReview.java	10
CustomerTransactionConfirmation.java	10
DeleteItemShoppingCart.java	10
InvalidateShoppingList.java	10
ManageOrder.java	10
ShoppingCart.java	10
UpdateShoppingCart.java	11
VenueAndConcertSearchQuery.java	11
ViewOrders.java	11
Folder: mysql/classes	11
DBAccessClass.java	11

ConcertsDB.java	11
OrdersDB.java	11
ReviewDB.java	12
TransactionDB.java	12
UsersDB.java	12
VenueDB.java	12
Folder: WEB-INF/lib	12
jstl.jar	12
standard.jar	12
mysql-connector-java-5.1.44-bin.jar	12
Folder: styles	12
Styles.css	13
Folder: pics	13

File locations:

~:\Assignment1\src\modal

~:\Assignment1\src\servlet

~:\Assignment1\WebContent

Database locations (Java Properties file):

~:\Assignment1\WebContent\WEB-INF

There is no actual database usage in this project, a Java properties file is used instead to store related data such as usernames and passwords.

Folder: Root Folder

Location: ~:\Assignment1\

Purpose: Where the entire project is store at.

Folder: WebContent

CustomerHomePage.jsp

This is the customer homepage after login. The user can search for a concert on this page

.

Input:

none

Output:

concert keyword in the search bar, then redirect to "ConcertSearchResults.jsp" with concert details (placeholder as of now)

ConcertSearchResults.jsp

View the search results from the customer home page. (placeholder as of now)

Input:

The user input keyword to search for concert

Output:

relevant concerts

ConcertDetailsSelection.jsp

This page shows concert details (time it starts, opening acts if there are any, prices, and seat location). (placeholder as of now)

Input:

none

Output:

concert details

ViewAndCheckoutShoppingCart.jsp

This page shows the shopping cart of a user. (placeholder as of now)

Input:

none

Output:

User cart details.

CustomerTransaction.jsp

This page shows the user purchase order transaction. (placeholder as of now)

Input:

User input their card details to confirm a transaction

Output:

transaction details

CustomerTransactionConfirmation.jsp

This page shows purchase order transaction confirmation of a transaction

Input:

none

Output:

order confirmation page

ViewOrders.jsp

This page shows all currently purchased tickets of a user.

Input:

none

Output:

a page to display user orders.

ManageOrder.jsp

This page allows the user to manage their orders.

Input:

none

Output:

a page to display user order details.

CancelOrder.jsp

A page that displayed after the user clicked on cancel button in "ManageOrder.jsp".

Input:

none

Output:

A page that prompt user for confirmation of cancellation

CancellationConfirmation.jsp

for confirming cancellation of an order.

Input:

none

Output:

A page that confirms the success of the cancellation

CustomerTransaction.jsp

Input:

text

Output:

none

CustomerReviewConfirmation.jsp

Input:

none

Output:

A page that confirms the success of the adding a comment

Folder: model

Users.java

A Java class to store user accounts.

CreditCards.java

A java class to store credit cards information.

Orders.java

A java class to store orders information.

Review.java

A java class to store reviews information.

Shows.java

A java class to store shows information.

Folder: servlet**Login.java**

This servlet is a controller that accepts input from the view and process it, in this instance, username and password, it checks whether the user has entered the correct credentials.

Register.java

This servlet is a controller that accepts input from the view and process it, in this instance, username and password.

Logout.java

This servlet is a controller that invalidate the session and redirect the user to the login page.

CancelOrder.java

This servlet runs after the user clicked on confirm cancellation of an order. It cancels the order and removes it from ManageOrder page.

CancelOrderInfo.java

This servlet is a controller that handles the information of the selected order item to be canceled.

ConcertSearchResult.java

This servlet shows the detail selection of concert that the user wishes to see.

CustomerReview.java

This servlet inserts the user comments and rating into the DB.

CustomerTransactionConfirmation.java

This servlet gets credit card number parameter and checks against the database to either add new cards into the database or update a new balance to the card that already existed if the card has enough balance to complete the transaction.

DeleteItemShoppingCart.java

This servlet is responsible for updating the shopping list when the user deletes an item in the shopping cart.

InvalidateShoppingList.java

This servlet invalidates the shopping list session after a transaction is completed.

ManageOrder.java

This servlet calls the appropriate methods to fetch all data of associated items of a selected order.

ShoppingCart.java

This servlet check against the database whether the performance has enough seat for the number of tickets the user has requested.

UpdateShoppingCart.java

This servlet is responsible for adding shows that user wishes to buy into the shopping list session.

VenueAndConcertSearchQuery.java

This servlet shows the available concert based on the name and venue that the user has requested. If there is no result, it would retrieve all the performance that is in the database.

ViewOrders.java

This servlet shows all orders of a user, given the userID.

Folder: mysql/classes

DBAccessClass.java

This class contains all methods to connect, fetch, update data from the MySQL database. All DB classes below will call methods from this class.

ConcertsDB.java

This java class contains the methods to retrieve the available concerts from the database and retrieve details of a particular performance.

OrdersDB.java

This java class contains methods to get all orders of a user, to get all order items of a selected order, to get info of a specific order item, and another method to cancel an order, which also update credit card balance, seat number and total cost of the order at the same time.

ReviewDB.java

This java class contains all the methods that the servlet can call to connect to the database and add new comments or retrieve reviews from a particular performance.

TransactionDB.java

This java class contains all the methods that the servlet can call to connect to the database and add orders by the user. It also has a function to get the number of available seat for each performance and get the balance of credit cards.

UsersDB.java

This java class contains methods to register and validate user during login.

VenueDB.java

This java class connect to the database and retrieve all the available concert venue.

Folder: WEB-INF/lib

jstl.jar

File for JSP Standard Tag Library

standard.jar

File for JSP Standard Tag Library

mysql-connector-java-5.1.44-bin.jar

Library file for MySQL JDBC connector

Folder: styles

Styles.css

CSS for styling of the star function for the comment section and overall app

Folder: pics

Contain all the images we use in different JSP pages

User Manual
For Ticket Purchasing Web Application

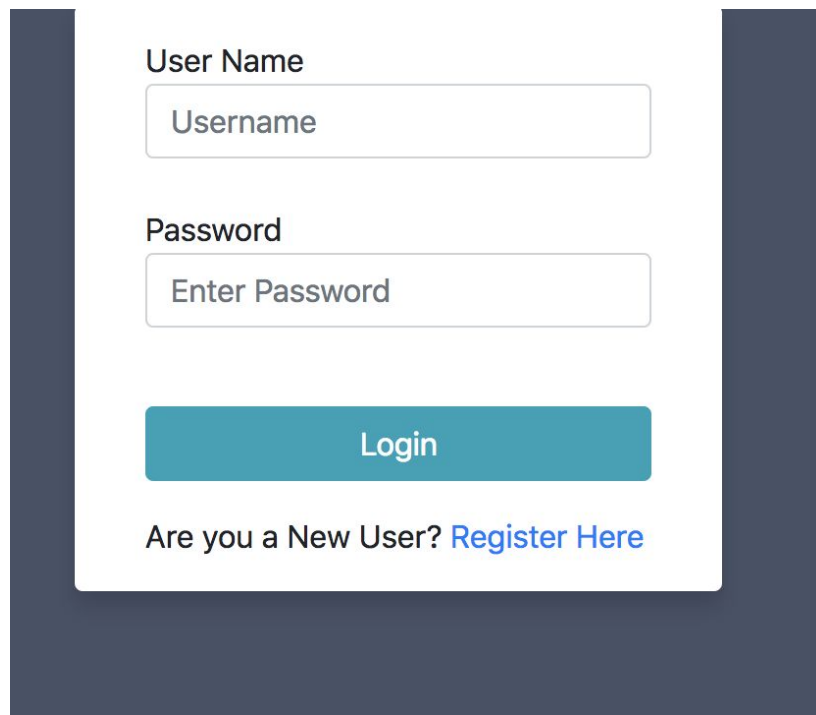
Introduction	17
Login	18
New User Registration	19
Homepage	20
Concert Detail Selection	22
Customer Review	23
View Checkout Shopping Cart	24
Transaction Page	25
Transaction Confirmation	27
Manage Orders Page	29
Cancel Order	30
Cancellation Confirmation	31

Introduction

This web application is a ticket purchasing web application that can be used by the customer.

This document guides a user through the necessary steps to buy a ticket for the performance that they wish to attend.

Login

A login form is centered on a dark blue background. The form is a white rounded rectangle containing three elements: a 'User Name' label above a text input field with the placeholder 'Username', a 'Password' label above a text input field with the placeholder 'Enter Password', and a teal 'Login' button. Below the button is a link that says 'Are you a New User? Register Here'.

Users who have previously registered for the service must login by

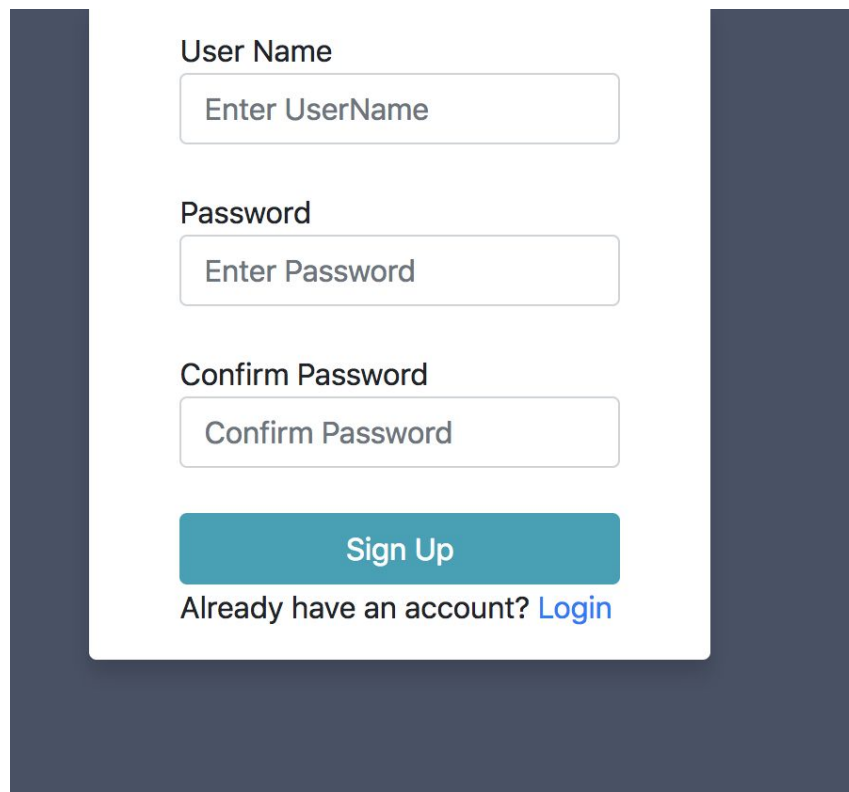
Entering their User Name.

Entering their Password.

Selecting Login to advance to the next screen and begin using the application.

Site Registration Users who have not previously registered for the Web Application must select “Register here” to access the “New User Registration” page.

New User Registration

A registration form titled "New User Registration" is centered on a dark blue background. The form is a white rectangle with rounded corners. It contains three input fields, each with a label above it: "User Name" with a placeholder "Enter UserName", "Password" with a placeholder "Enter Password", and "Confirm Password" with a placeholder "Confirm Password". Below these fields is a teal "Sign Up" button. At the bottom of the form, it says "Already have an account? [Login](#)".

User Name

Password

Confirm Password

[Sign Up](#)

Already have an account? [Login](#)

Users will be asked to enter all of the following information

User Name

Pick a username that the user wants to use for this system.

Password

Pick a password to go along with the username.

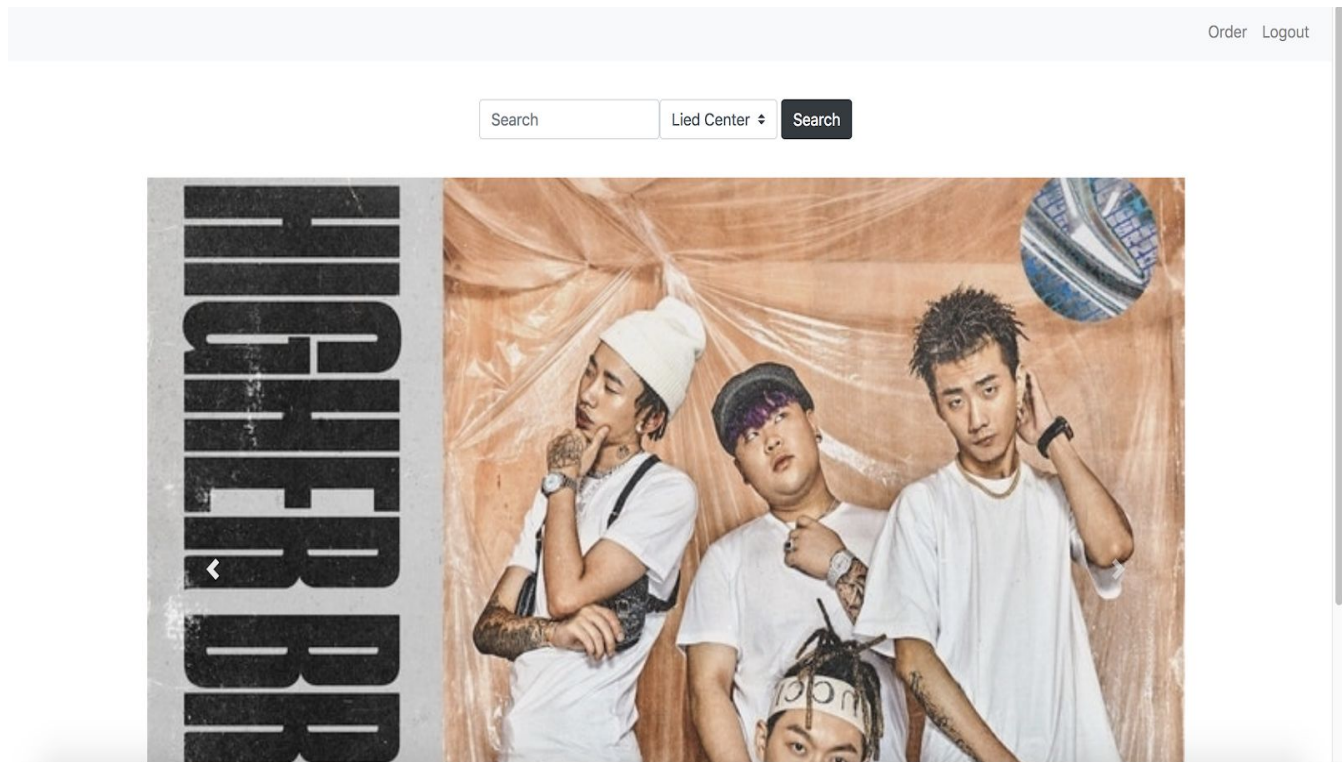
Confirm Password

Re-enter the password user has chosen to as security check.

Sign up

Select sign up when the user is done to create an account.

Homepage



After Logging into the Web Application, the user will be redirected to the homepage.
Select the buttons on this page to do the following

Search field

Type in the field to search for an event.

Location

A drop-down of where the user can set the location they want the search to restrict to.

Search Button

It redirects the user to the next page with the search query.

Logout


It redirects the user to the login page

Order

It will redirect the user to a page where they can view their previous orders.

Carousel Image

The carousel image displays some of the events that are available and it is not interactive.

Order Logout							
Name	Venue	Start Time	Seat Remaining	Price	Opening Acts	Thumbnail	More Info
Rennie Harris Puremovement	Lied Center	9:30 am	30	\$12	No		Details

This page shows the result from the search query. Select the following buttons will do the following

Details

It will redirect the user to another page to view more details about the event.

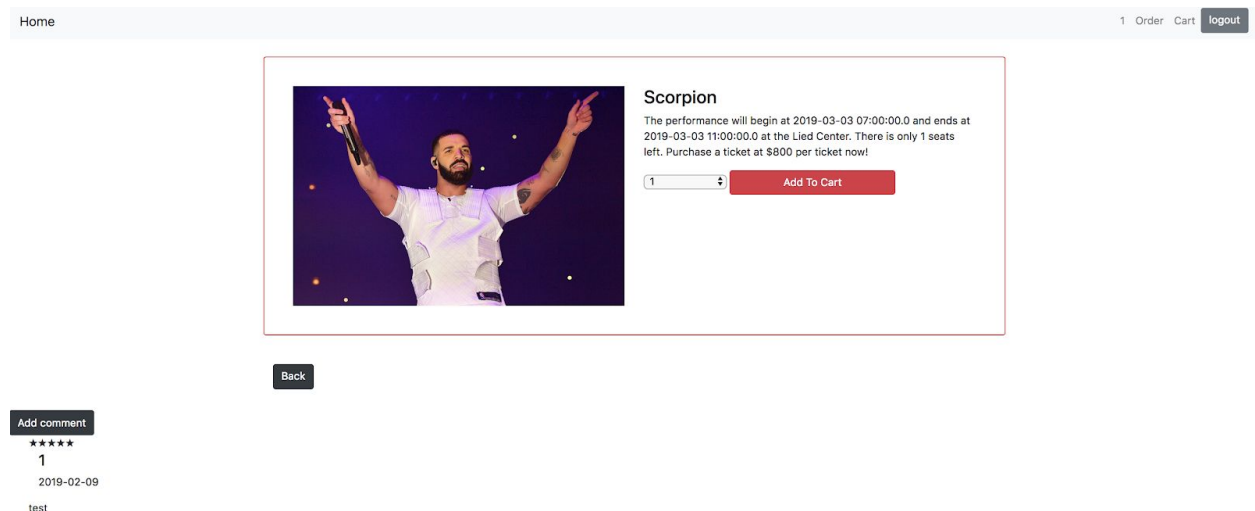
Order

It will bring the user to their order page.

Logout

It will log the user out and redirect them to the login screen.

Concert Detail Selection



This page shows the details of the concert that the user has selected. The user can see comments by others by scrolling down to the comment section. Select the button on this page will do the following

Add to Cart

This button will add the concert to the cart

Back

This will bring the user back to the previous page, which shows the result of concerts.

Home

It will redirect the user to the homepage.

Order

It will redirect the user to a page where they can view their previous orders.

Logout

It will log the user out and redirect them to the login screen.

Add Comment

It will redirect the user to add comment page

Customer Review

[1](#) [Order](#) [Cart](#) [logout](#)

Comment

Rating

Cancel

Submit

This page consists of a form that allows the user to put in their comments and give the show a rating.

Comment

Text area for the user to type in their comment.

Rating

The user selects the rating they like to give out of 5.

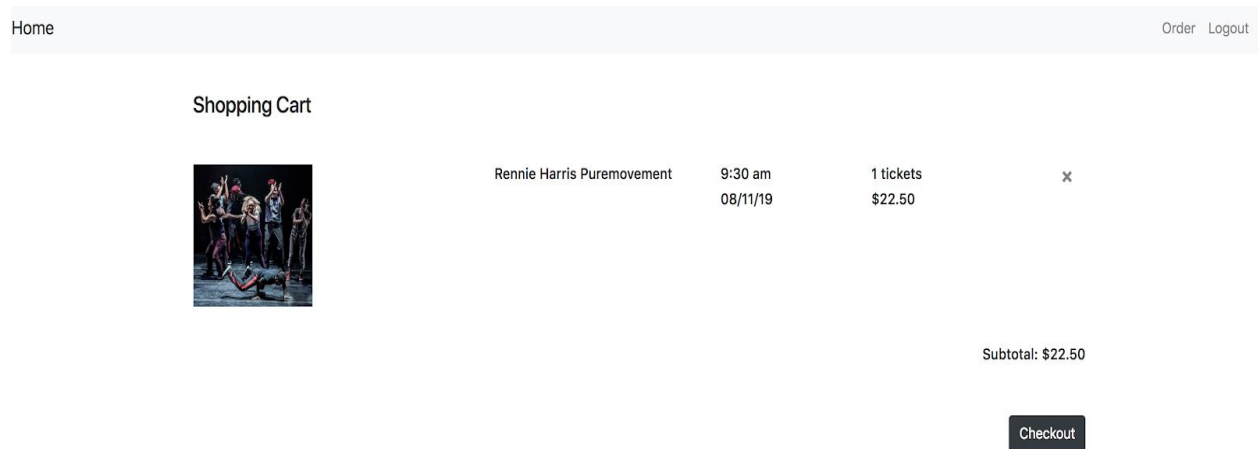
Submit

It will submit the comment and rating into the database.

Cancel

It will redirect the user back to the previous page.

View Checkout Shopping Cart



This page shows the user what they had in their shopping cart. Select the button on this page will do the following

Home

It will redirect the user to the homepage.

Order

It will redirect the user to a page where they can view their previous orders.

Logout

It will log the user out and redirect them to the login screen.

X button

The user can remove items from the shopping cart by pressing the x button.

Checkout

Select "Checkout" to go to the next page buy the ticket.

Transaction Page

[Home](#)[Order](#)[Logout](#)

Summary

Rennie Harris
Puremovement

Lied Center

1 tickets
\$22.50

Card Details

First Name

first name

Last Name

last name

Last Name

last name

Card Type

Visa

Card Number

Expiration date

Month

Year

CVC Number

XXX

Billing Address

billing address

Shipping Address

shipping address

Confirm

[← Continue Shopping](#)

Subtotal: \$22.50

This page shows the user shopping cart under summary. Clicking the Continue Shopping link will bring the user back to the shopping cart. The user will be asked to enter or select the following information.

First Name

Enter the user's first name

Last Name

Enter the user's last name

Card Type

Choose the user's card type

Card Number

Enter the user card Number

Expiration Date

Choose from the drop down for month and year of their card expiration.

CVC number

Enter the security code for user's card, which is usually located at the back of the card.

Billing Address

Enter the user billing address.

Shipping Address

Enter the shipping address the user wishes to send the ticket to.

Confirm

Clicking the button means that the user accepts the transaction and the system will process the order and redirect the user to the next page to inform the user if the transaction was successful or not.

Transaction Confirmation

[Home](#)

[Order](#) [Logout](#)

Success!

Your order for Rennie Harris Puremovement was at Lied Center placed successfully. You order 1 ticket at \$22.50 per ticket.

This page will inform the user whether their transaction from the previous page was successful.

View Order Page

Home			test	logout
Order Number	Order Total	Ordered date		
1	\$8700	20/1/2019 3:57:44 PM	View	
4	\$10	20/1/2019 3:57:44 PM	View	

This page shows all the orders that the user has placed. Select the following buttons will do the following:

Home

It will redirect the user to the homepage.

View

It will redirect the user to Manage order page where they can see more details of the order.

Logout

It will log the user out and redirect them to the login screen.

Manage Orders Page

Home

test View Orders

logout

Order Number: 1

Band Name	Quantity	Total price	Venue	Showtime	
Scorpion	4	3200	Lied Center	2019-03-03 07:00:00.0	View Cancel
Black Cab	10	5500	Pinnacle Bank Arena	2019-03-13 19:00:00.0	View Cancel

Order Total: \$8700

Ordered Date: 20/1/2019 3:57:44 PM

This page shows the detail of a selected order, including the band/headliner name, ticket quantity, total price, venue, showtime. The user can also view the detail of the concert or cancel the order. Select the following buttons will do the following:

Home

It will redirect the user to the homepage.

View

It will redirect the user to the concert details page.

Cancel

It will redirect the user to the cancel order page, where it prompts the user for order cancellation confirmation.

View Orders

It will redirect the user to the View Orders page.

Logout

It will log the user out and redirect them to the login screen.

Cancel Order

[View Orders](#) [Logout](#)

Are you sure you want to cancel this order?

Order Number: 107145

Rennie Harris Puremovement

Ticket quantity: 4
Total price: \$48.00
Venue name: Lied Center
Showtime: 9:30am 25/1/2019

Confirm Cancellation

Discard Cancellation

This page displays the concert information and the order it belongs to. It allowed the user to cancel the selected tem in an order. Select the following buttons will do the following:

Confirm Cancellation

This button will delete the reservation the user made.

Discard Cancellation

This will not delete the reservation that the user made.

Home

It will redirect the user to the homepage

Logout

It will log the user out and redirect

View Orders

It will redirect the user to order page

Cancellation Confirmation

[Home](#)

[View Orders](#) [Logout](#)

Your order has been cancelled

Order Number: 107145

Rennie Harris Puremovement

Ticket quantity: 4
Total price: \$48.00
Venue name: Lied Center
Showtime: 9:30am 25/1/2019

Refunded Amount: \$48.00

This amount is refunded to your original purchase method.

This page shows the detail of the canceled order, including the band/headliner name, ticket quantity, total price, venue, showtime. It also shows the refunded amount of the cancellation. Select the following buttons will do the following:

Home

It will redirect the user to the homepage.

View Orders

It will redirect the user to the

Logout

It will log the user out and redirect them to the login screen.