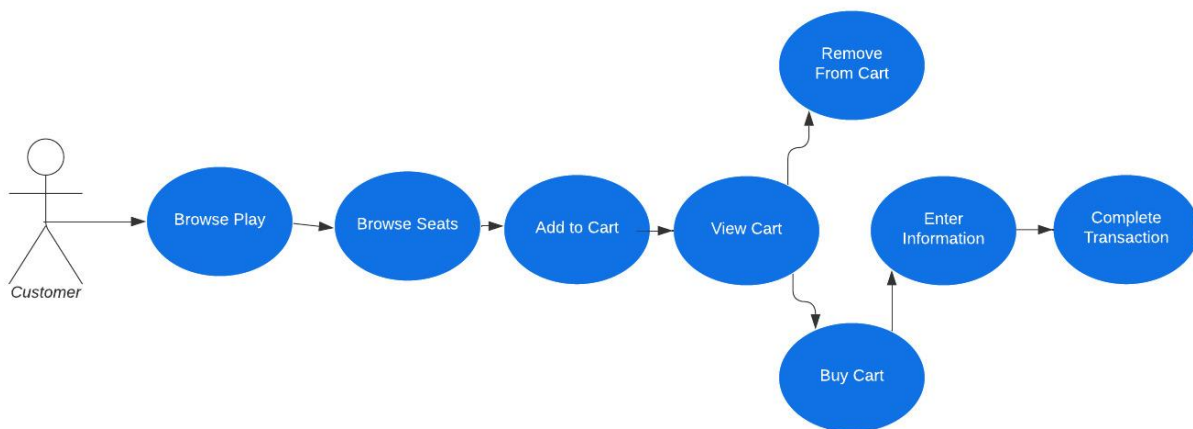# Theater Ticket System

By: Devin Chavez and Benjamin W

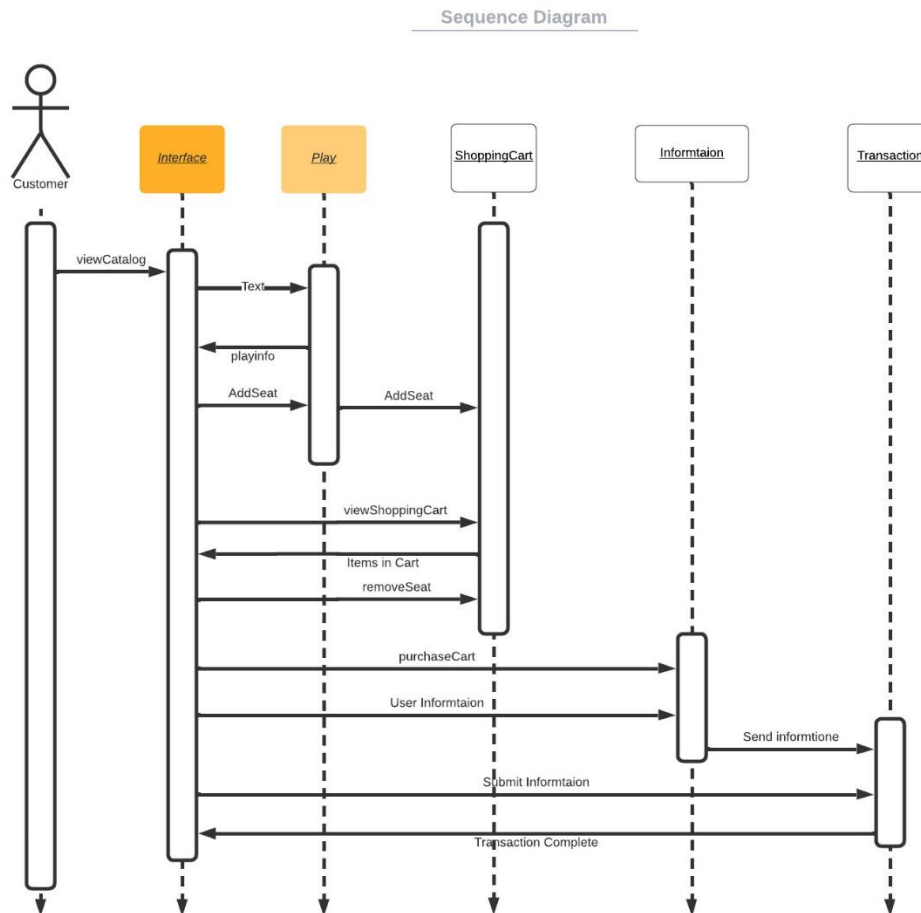## Summary of Changes:

System Requirements:

- Present the user with a play, a date and a time.

- Display seats:

  - Seats can be pressed and added to Shopping Cart

  - Available seats will be green and unavailable seats will be red

  - Unavailable seats will not send to cart.

- When the user goes to the shopping cart, present the seats that have previously been

  placed in the cart.

  - Allow the user to remove seats from the shopping cart.

- When user decides to purchase cart, get the users name, phone number, address, and card

  number.

- Using the card number complete a transaction with the total price of the cart purchased.

- Purchased seats will be made unavailable.

Use Case Diagram:

In this use case, the customer is purchasing seats. The customer starts by browsing the play, they them move to browsing the seats. From here, they can add a seat to cart. When they view cart, they can remove a seat or add a seat to cart. They then buy cart and enter their information. Their card is then charged, and the transaction is complete.
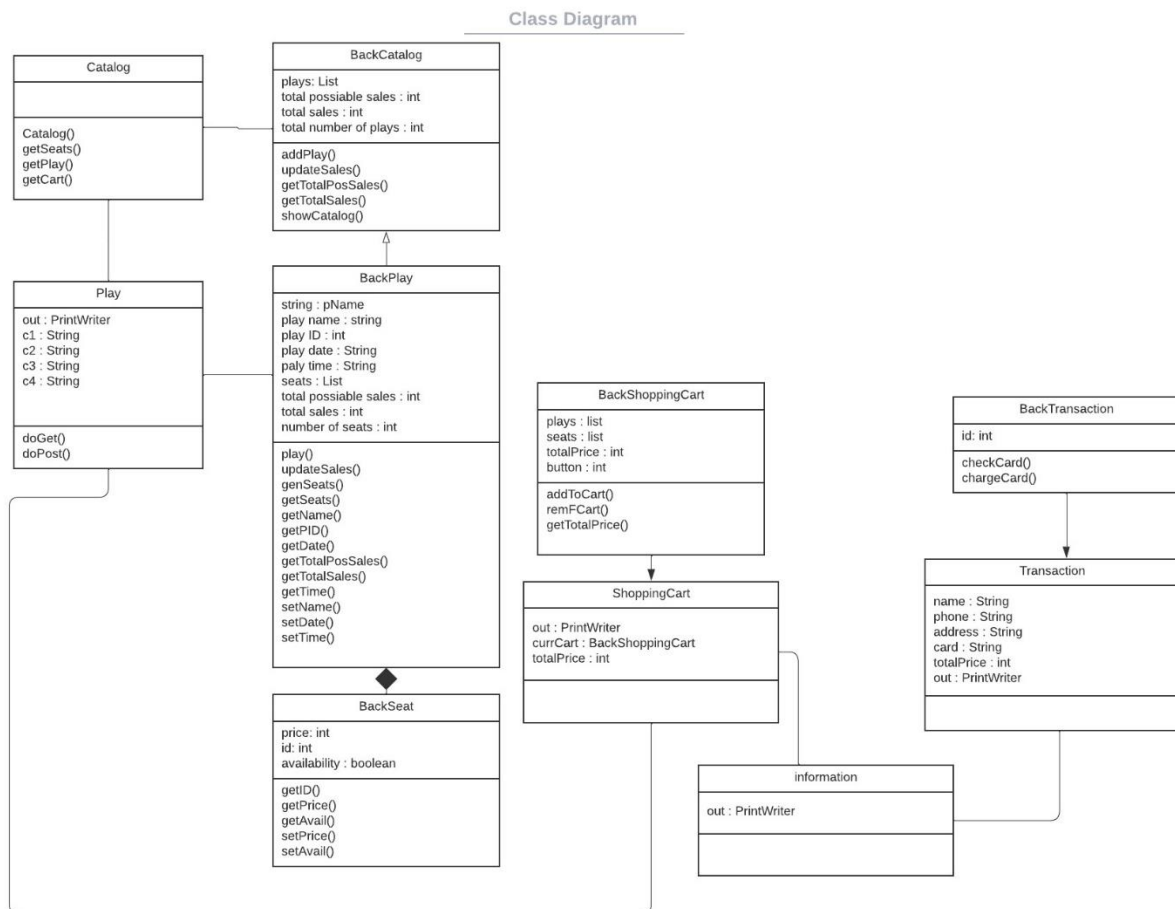

Sequence Diagram

The customer interacts with the interface. The interface will then send and get information from the other classes. The play class will show the play information. The interface can also tell the play to add a seat to cart. This will send the information to the shopping cart. Interface then can interact with the shopping cart where it will send its information. It can then remove seats. Purchasing the cart will then send the information call to gather information and submitting this

will cause it to submit that information to the transaction class. This is where that information

will be used to complete the transaction.

Class Diagram:

Class Diagram

Catalog

Catalog()
getSeats()
getPlay()
getCart()

BackCatalog

plays: List
total possiable sales : int
total sales : int
total number of plays : int

addPlay()
updateSales()
getTotalPosSales()
getTotalSales()
showCatalog()

Play

out : PrintWriter
c1 : String
c2 : String
c3 : String
c4 : String

doGet()
doPost()

BackPlay

string : pName
play name : string
play ID : int
play date : String
paly time : String
seats : List
total possiable sales : int
total sales : int
number of seats : int

play()
updateSales()
genSeats()
getSeats()
getName()
getPID()
getDate()
getTotalPosSales()
getTotalSales()
getTime()
setName()
setDate()
setTime()

BackShoppingCart

plays : list
seats : list
totalPrice : int
button : int

addToCart()
remFCart()
getTotalPrice()

BackTransaction

id: int

checkCard()
chargeCard()

ShoppingCart

out : PrintWriter
currCart : BackShoppingCart
totalPrice : int

Transaction

name : String
phone : String
address : String
card : String
totalPrice : int
out : PrintWriter

BackSeat

price: int
id: int
availability : boolean

getID()
getPrice()
getAvail()
setPrice()
setAvail()

information

out : PrintWriter

TEST CASE REPORT

GENERAL INFORMATION				
Test Stage:	☐Unit ☐Functionality ☐Integration ☐System ☒ Interface ☐Performance ☐Regression ☐Acceptance ☐Pilot			
Test Date:	5/02/22	**System Date, if applicable:**		
Tester:	Devin Chavez	**Test Case Number:**	0001	
Test Case Description:	Test the interface of the system.			
Results:	☒Pass ☐Fail	**Incident Number, if applicable:**		
INTRODUCTION				
Requirement(s) to be tested:	Test the ability to move through each page.			
Roles and Responsibilities:	Devin Chavez: performed the test.			
Set Up Procedures:	Describe the sequence of actions necessary to prepare for execution of the test.			
Stop Procedures:	An error occurs. Button takes us to a page we can't move from.			
ENVIRONMENTAL NEEDS				
Hardware:	Desktop Computer			
Software:	Brave Browser			
Procedural Requirements:				
TEST				

Test Items and Features:	Webpages, buttons, and information inputs. will be tested.
Input Specifications:	Click catalog, click seats, go back to play, click shopping cart, click purchase, enter information.
Procedural Steps:	At the welcome page. Click on the catalog, click on the seat you want, click "go back", click shopping cart, click purchase, input valid information.
Expected Results of Case:	It is expected that the tester will be able to move to the transaction page successfully.
ACTUAL RESULTS	
Output Specifications:	Clicking "View Catalog" takes me to the Play page. Clicking a play takes me to a white page with a "Go Back" button. This takes me back to Play. Clicking "Shopping Cart" takes me to ShoppingCart. "Purchase Cart" takes me to an information page. Entering my information takes me to a transaction page.

TEST CASE REPORT
(Use one template for each test case)

GENERAL INFORMATION			
Test Stage:	☐Unit ☒Functionality ☐Integration ☐System ☐Interface ☐Performance ☐Regression ☐Acceptance ☐Pilot Specify the testing stage for this test case.		
Test Date:	5/06/22	System Date, if applicable:	
Tester:	Devin Chavez	Test Case Number:	0002
Test Case Description:	Test the functionality of adding and removing plays to cart		
Results:	☒Pass ☐Fail	Incident Number, if applicable:	Specify the unique identifier assigned to the incident.
INTRODUCTION			
Requirement(s) to be tested:	The ability to add and remove plays from the cart		
Roles and Responsibilities:	Devin: tester		

Set Up Procedures:	
Stop Procedures:	Major Error occurs.

ENVIRONMENTAL NEEDS	
Hardware:	Desktop Computer
Software:	Brave Browser on Windows.
Procedural Requirements:	

TEST	
Test Items and Features:	This will test the buttons of the seats, the functionality to add seats to cart, the functionality for the plays to be displayed and the functionality of the plays to be removed.
Input Specifications:	Click the seat buttons. Click the shopping cart. Click the remove button of a play.
Procedural Steps:	At the Play page, click all the buttons to test each seat. Go to the shopping cart. Make sure each seat has been added and displayed. Click remove for each seat.
Expected Results of Case:	All seats will be added to cart and subsequently, removed.

ACTUAL RESULTS	
Output Specifications:	There was no problem with each initial seat button click. The Shopping Cart Shows all of the plays added. Remove worked on all of the plays.

TEST CASE REPORT

GENERAL INFORMATION			
Test Stage:	☐Unit ☒Functionality ☐Integration ☐System ☐ Interface ☐Performance ☐Regression ☐Acceptance ☐Pilot Specify the testing stage for this test case.		
Test Date:	05/05/22	**System Date, if applicable:**	
Tester:	Devin Chavez	**Test Case Number:**	0003

Test Case Description:	Test the input of the information page		
Results:	☒Pass ☐Fail	Incident Number, if applicable:	
INTRODUCTION			
Requirement(s) to be tested:	Test the ability for the program to get the proper information and determine if that information is wrong.		
Roles and Responsibilities:	Devin Chavez: Tester.		
Set Up Procedures:			
Stop Procedures:	Test results in a major error.		
ENVIRONMENTAL NEEDS			
Hardware:	Cell Phone		
Software:	Brave browser on android		
Procedural Requirements:			
TEST			
Test Items and Features:	Form inputs for the information page. Ability for the program to detect a valid card.		
Input Specifications:	Input your name, phone number, address and credit card		
Procedural Steps:	Go to the information page of the website. Input all of your information and press enter. Do this for different credit card numbers. Test to see if it is checking the numbers.		
Expected Results of Case:	The expected outcome is for the transaction to go though if the credit card field has enough numbers and is a integer.		
ACTUAL RESULTS			
Output Specifications:	With a valid credit card number, I received a completed transaction. When I put in a credit card number consisting of only 4 digits, I got an message telling me that there was an error with my information. The same message appeared when I tried to enter letters into the credit card feild		