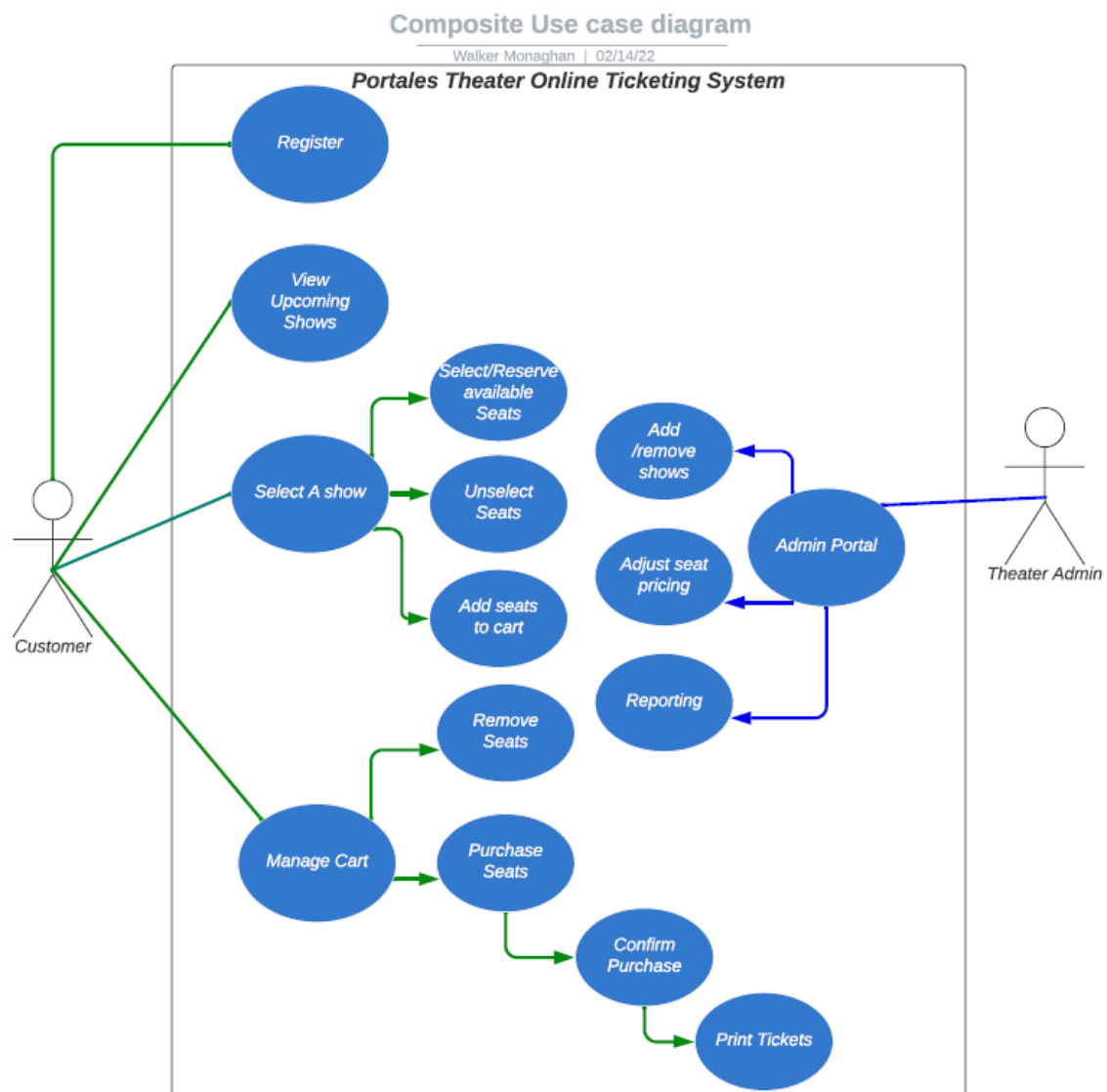Portales Theater

**Use Case Diagrams**

Prepared By

Walker Monaghan
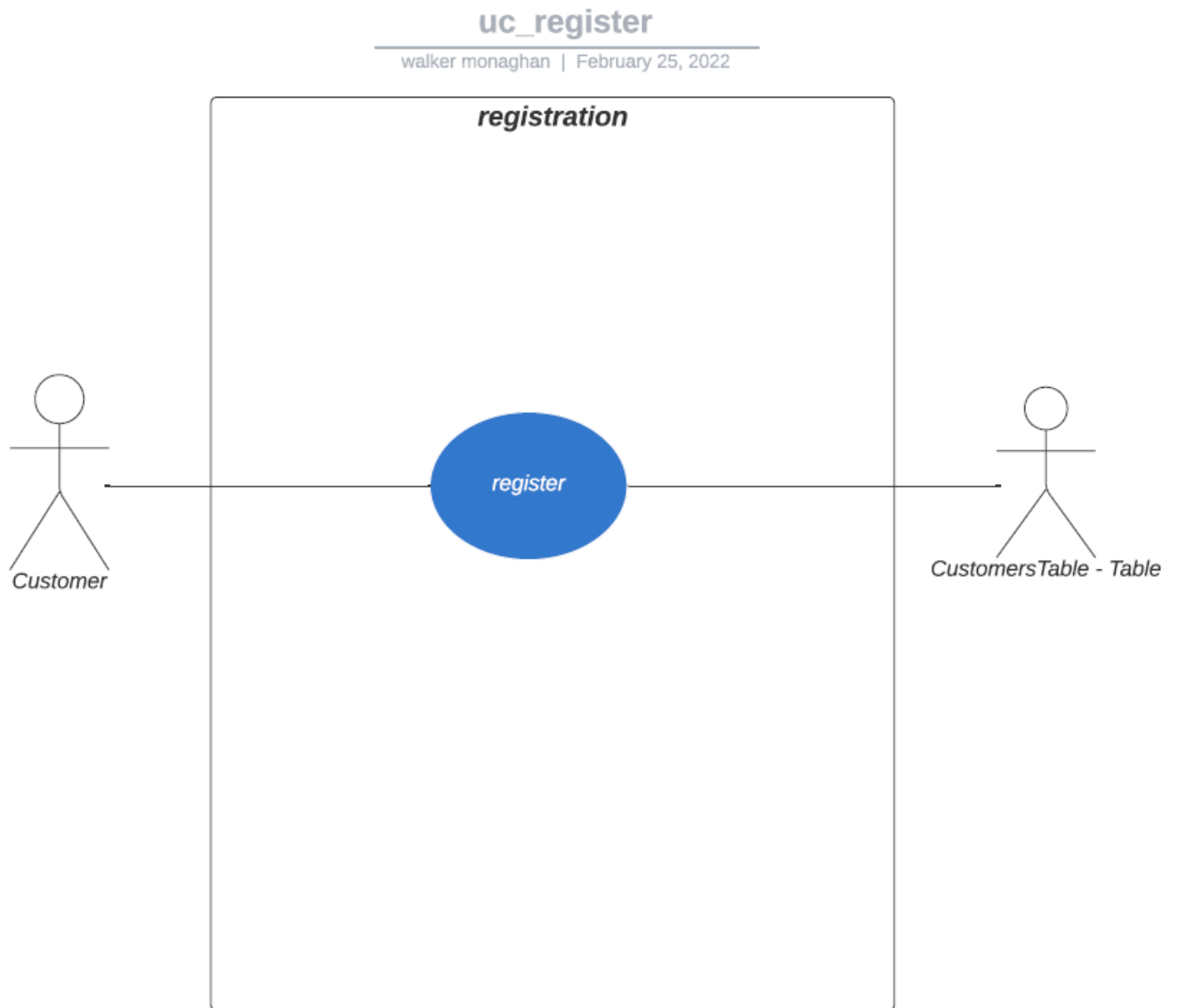
CS 472

# Contents

# Composite Use Case Diagram for Portales Theater Project



Composite Use case diagram

Walker Monaghan | 02/14/22

**Portales Theater Online Ticketing System**

# Customer - Registration

uc_register

walker monaghan | February 25, 2022

registration

register

Customer

CustomersTable - Table

| | |
|---|---|
| **ID:** | **Cust_registration** |
| **Title:** | Customer registers into database |
| **Description:** | This will allow customers to register in the Portales Theater system, enabling use of the systems seat purchasing. <br><br> Customer Table: <br><br> customer_id int PRIMARY KEY, <br><br> first_name varchar(30), <br><br> last_name varchar(30), <br><br> address varchar(50), <br><br> city varchar(50), <br><br> state varchar(50), <br><br> zip_code varchar(10), <br><br> telephone varchar(12), <br><br> email varchar(50), <br><br> age int(3) |
| **Primary Actor:** | Customer |
| **Preconditions:** | Information is not already cached (unique visitor) |
| **Postconditions:** | Customer has been added to Customers Table |
| **Main Success Scenario:** | The customer will visit the Portales Theater website and be immediately prompted to register before proceeding to view shows and reserve seats. |
| **Extensions:** | [Describe all the other scenarios for this use case - including exceptions and error cases.] |
| **Frequency of Use:** | High |
| **Status:** | Design |

# Customer - View Upcoming Shows
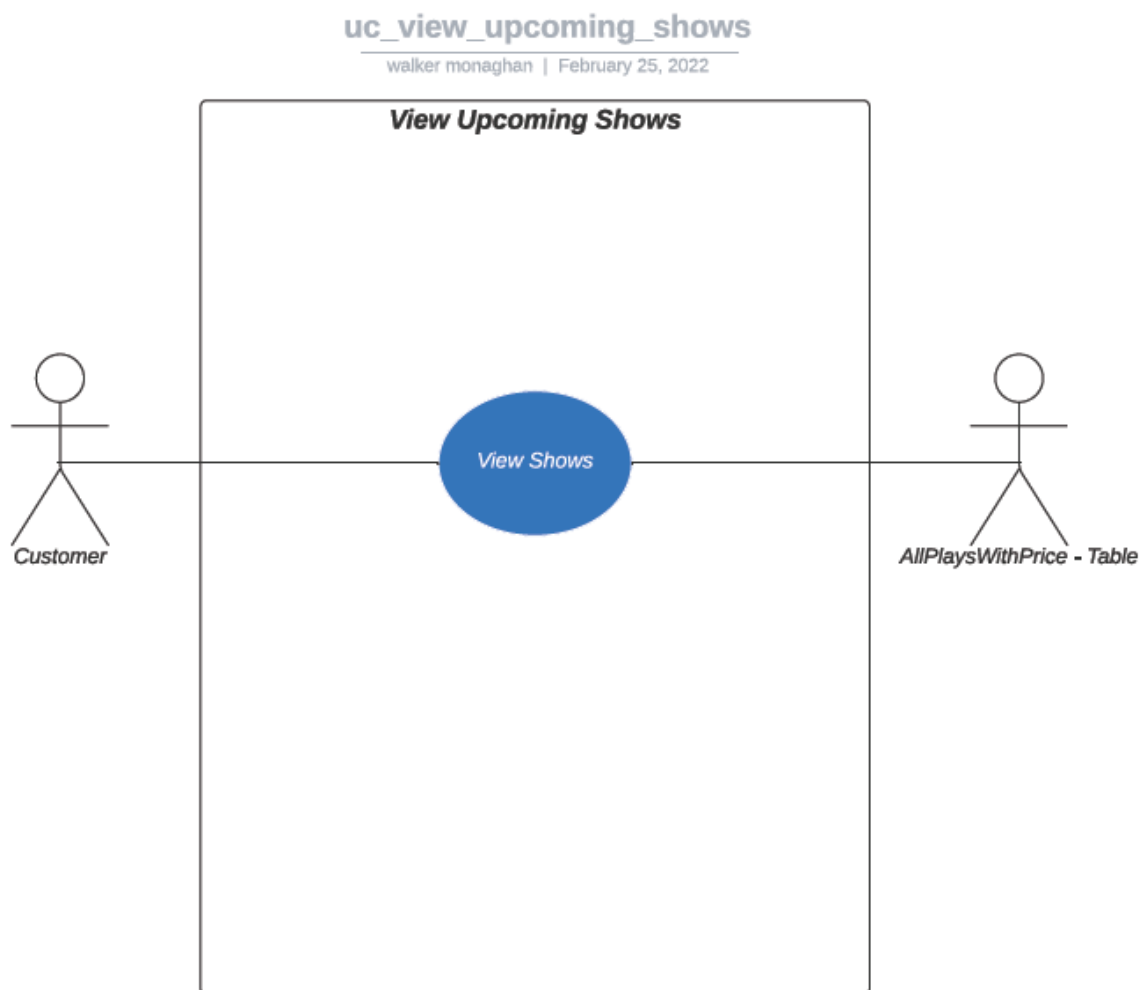
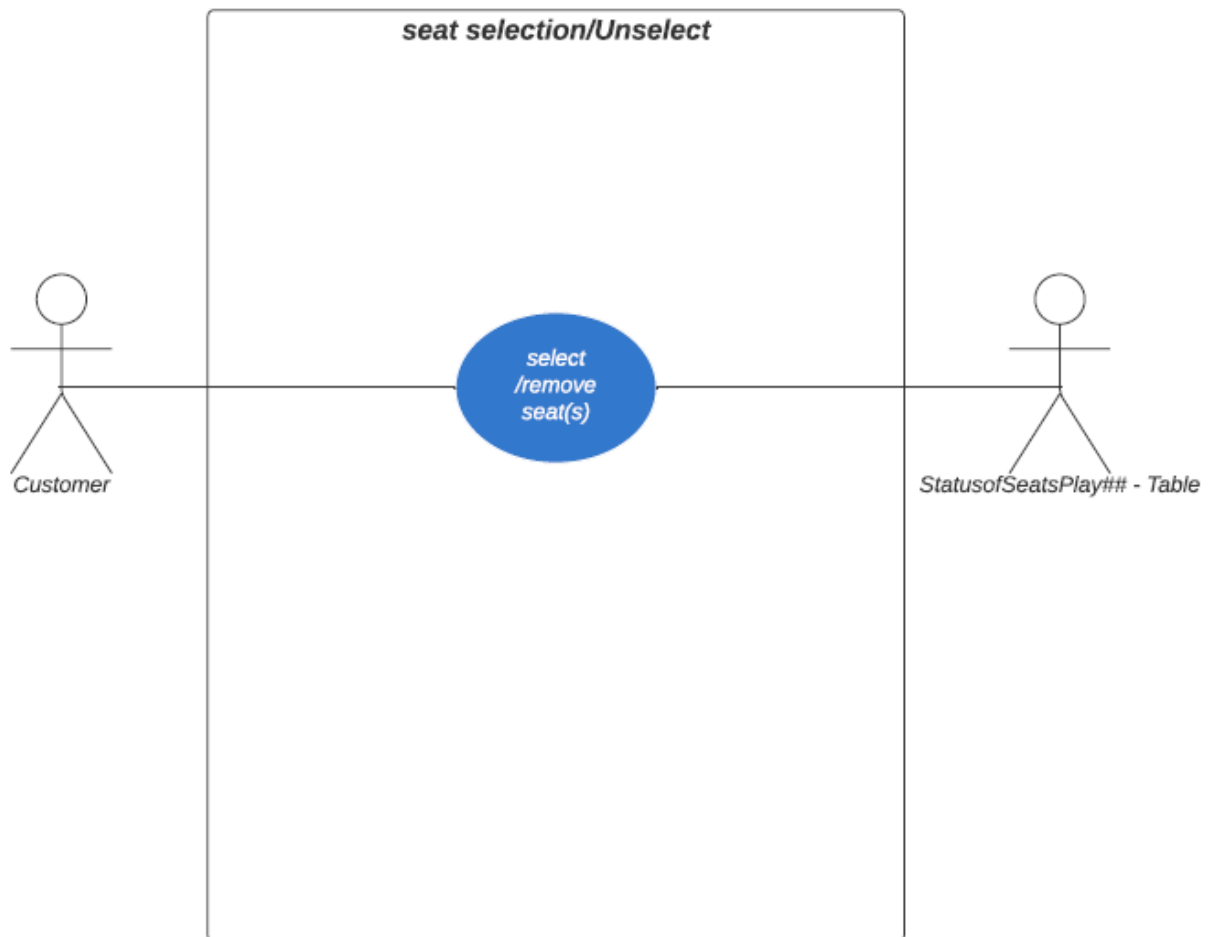| ID: | **View_upcoming_shows** |
|---|---|
| Title: | Customer can view all upcoming shows |
| Description: | This will allow the customer to see all upcoming shows that have been added by admin. Shows where the start time has lapsed will not be visible. |
| Primary Actor: | Customer |
| Preconditions: | Static – none |
| Postconditions: | Static - none |
| Main Success Scenario: | Customer is able to view an accurate list of upcoming shows to select from |
| Extensions: | Error – no shows generate<br><br>Error – lapsed shows generate |
| Frequency of Use: | High |
| Status: | Design |

# Customer - Select a Show
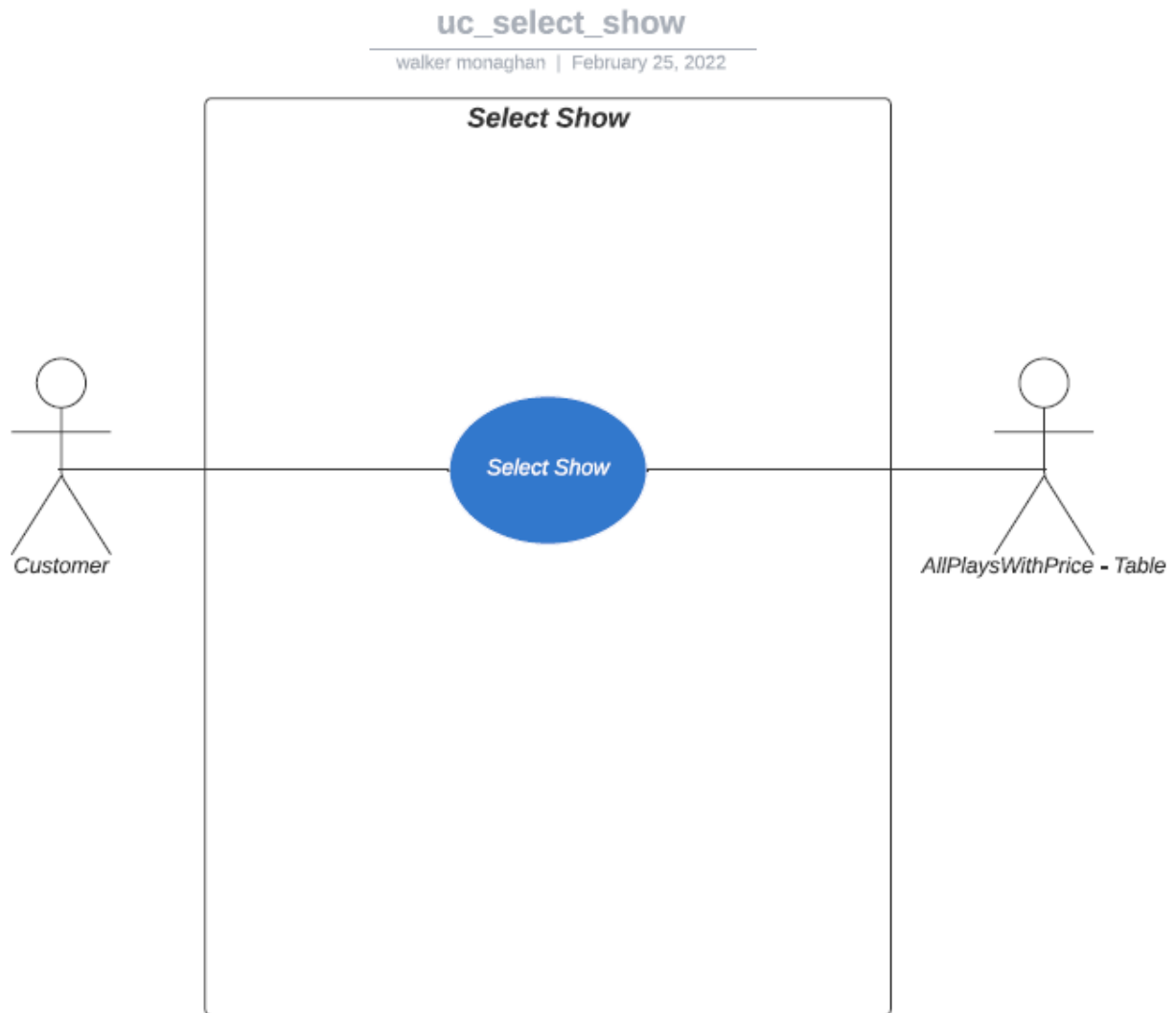
| | |
|---|---|
| **ID:** | **Select_show** |
| **Title:** | Customer selects a show |
| **Description:** | A customer is able to select an available upcoming show |
| **Primary Actor:** | Customer |
| **Preconditions:** | Show must have been visible during view_upcoming_show |
| **Postconditions:** | Move to seat_select_unselect |
| **Main Success Scenario:** | Customer is able to select an upcoming show and move forward to seat reservations in seat_select_unselect |
| **Extensions:** | Error – selects a show that has lapsed<br><br>Event – selects a show that is sold out |
| **Frequency of Use:** | High |
| **Status:** | Design |

## Customer - Seat Select/Unselect

| | |
|---|---|
| **ID:** | **Seat_select_unselect** |
| **Title:** | Customer selection and unselecting |
| **Description:** | "The customer clicks on the available…" (green) "…seats to add them to their list of seats for that play. The user can also click on a previously selected seat to remove it from their list of seats." |
| **Primary Actor:** | Customer |
| **Preconditions:** | A customer will see available green seats and unavailable red seats. |
| **Postconditions:** | A customer has selected the quantity and location of seats desired. |
| **Main Success Scenario:** | A customer, having selected a show, will view available seats and select them for reservation. Upon clicking the seats it should be indicated that that seat (or more) are selected and temporarily reserved within the StatusOfSeatsPlay## table for this show. |
| **Extensions:** | Error – No seats available<br><br>Event – customer selection times out |
| **Frequency of Use:** | high |
| **Status:** | design |

# Customer - Add Seats to Cart
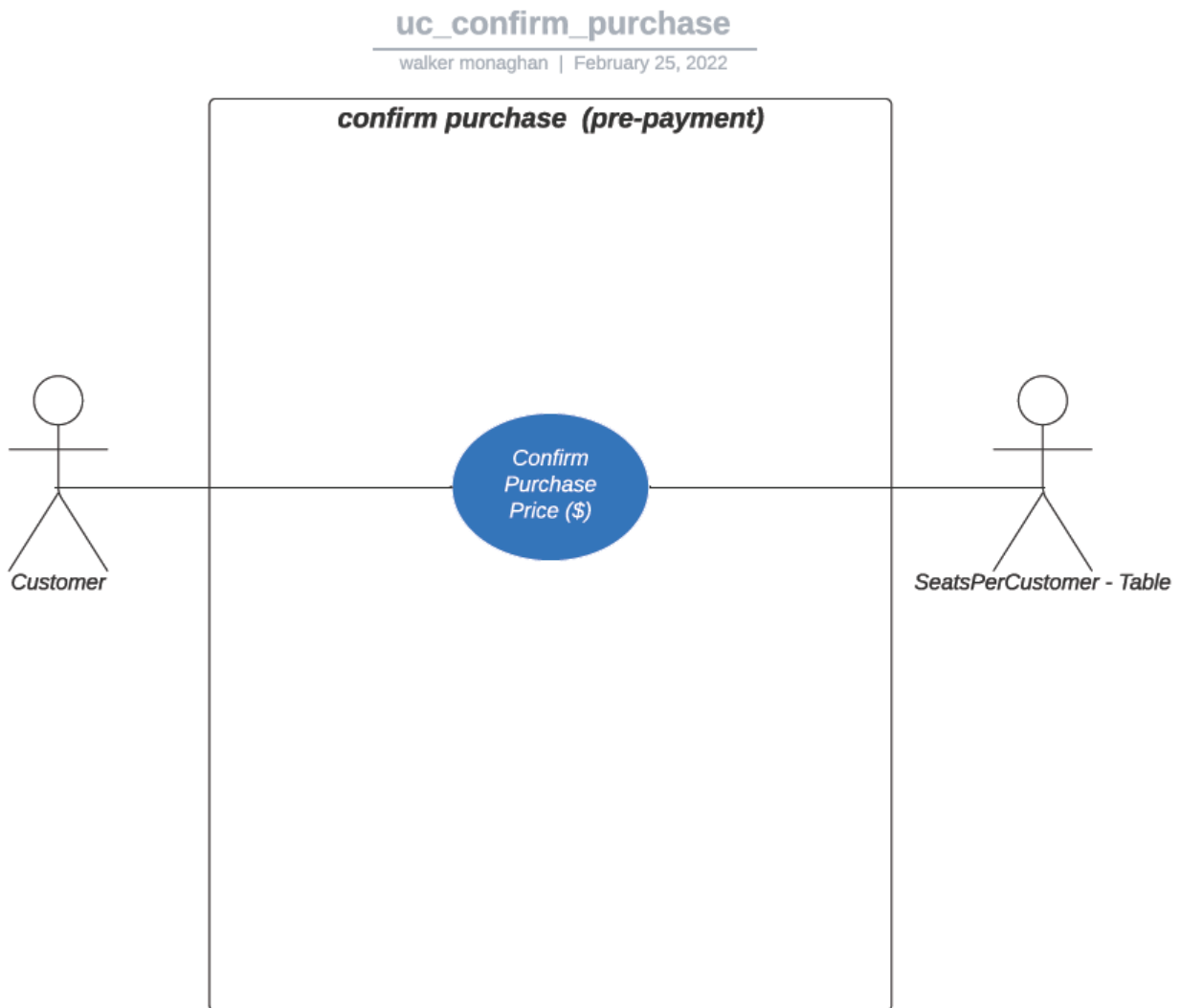
| | |
|---|---|
| **ID:** | **Add_remove_seat_to_cart** |
| **Title:** | Add or Remove seats to cart |
| **Description:** | This interaction will allow customers to add selected seats to their cart, or, remove selected seats from cart and from reservation |
| **Primary Actor:** | Customer |
| **Preconditions:** | Desired seats have been selected in seat_select_unselect |
| **Postconditions:** | Selected seats are added to cart and a on-screen confirmation is generated that the action is complete.<br><br>Impacts statusOfSeatsPlay## table and SeatsPerCustomer table |
| **Main Success Scenario:** | A customer who has selected and temporarily reserved desired seats is able to "add seats to cart", generating a confirmation message that the action has been complete.<br><br>Alternately at any step in the scenario, selected seats that have previously been added to cart can be removed. |
| **Extensions:** | Error – no seats have been selected (to add)<br><br>Error – no seats are in cart (to remove) |
| **Frequency of Use:** | High |
| **Status:** | Design |

# Customer - Manage Cart



**uc_manage_cart**
walker monaghan | February 25, 2022

**manage_carts**

Remove Seats

StatusOfSeatsPlay## - Table

Customer

SeatsPerCustomer - Table

Purchase Seats

confirm purchase
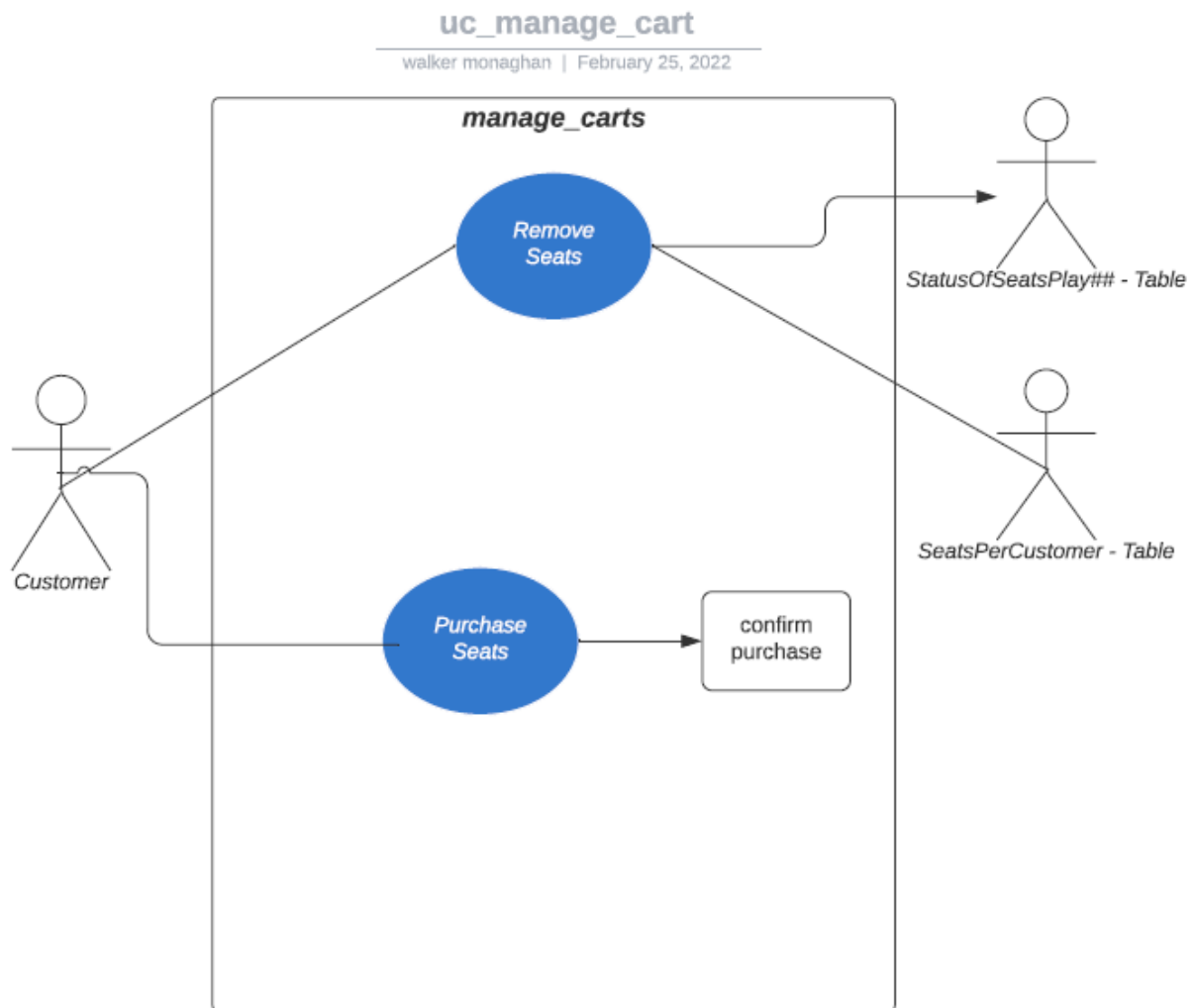
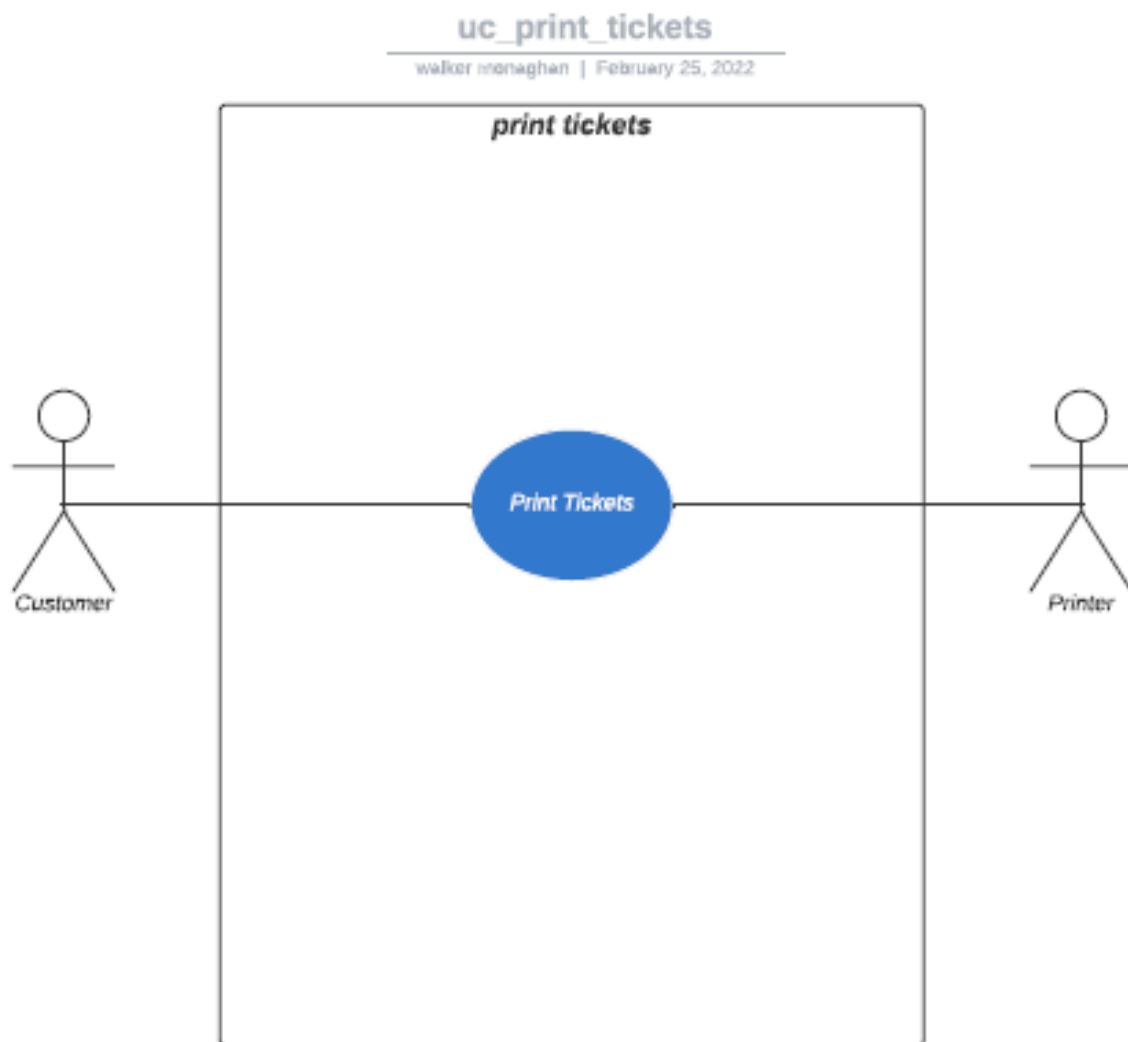| | |
|---|---|
| **ID:** | **Manage_cart** |
| **Title:** | Cart Management |
| **Description:** | This module will allow the customer to remove seats that have been added and/or proceed to purchase. |
| **Primary Actor:** | Customer |
| **Preconditions:** | Customer has had previous interaction that have added seats to the cart. |
| **Postconditions:** | Customer may return to add more seats or proceed to payment after reviewing cart. |
| **Main Success Scenario:** | A customer who has previously added desired seats to cart may now proceed to edit those cart quantities or proceed to continue to payment. |
| **Extensions:** | Event – Cart may be empty, continue shopping |
| **Frequency of Use:** | High |
| **Status:** | Design |

# Customer - Confirm Purchase



**uc_confirm_purchase**
walker monaghan | February 25, 2022

**confirm purchase  (pre-payment)**

Customer

Confirm Purchase Price ($)

SeatsPerCustomer - Table
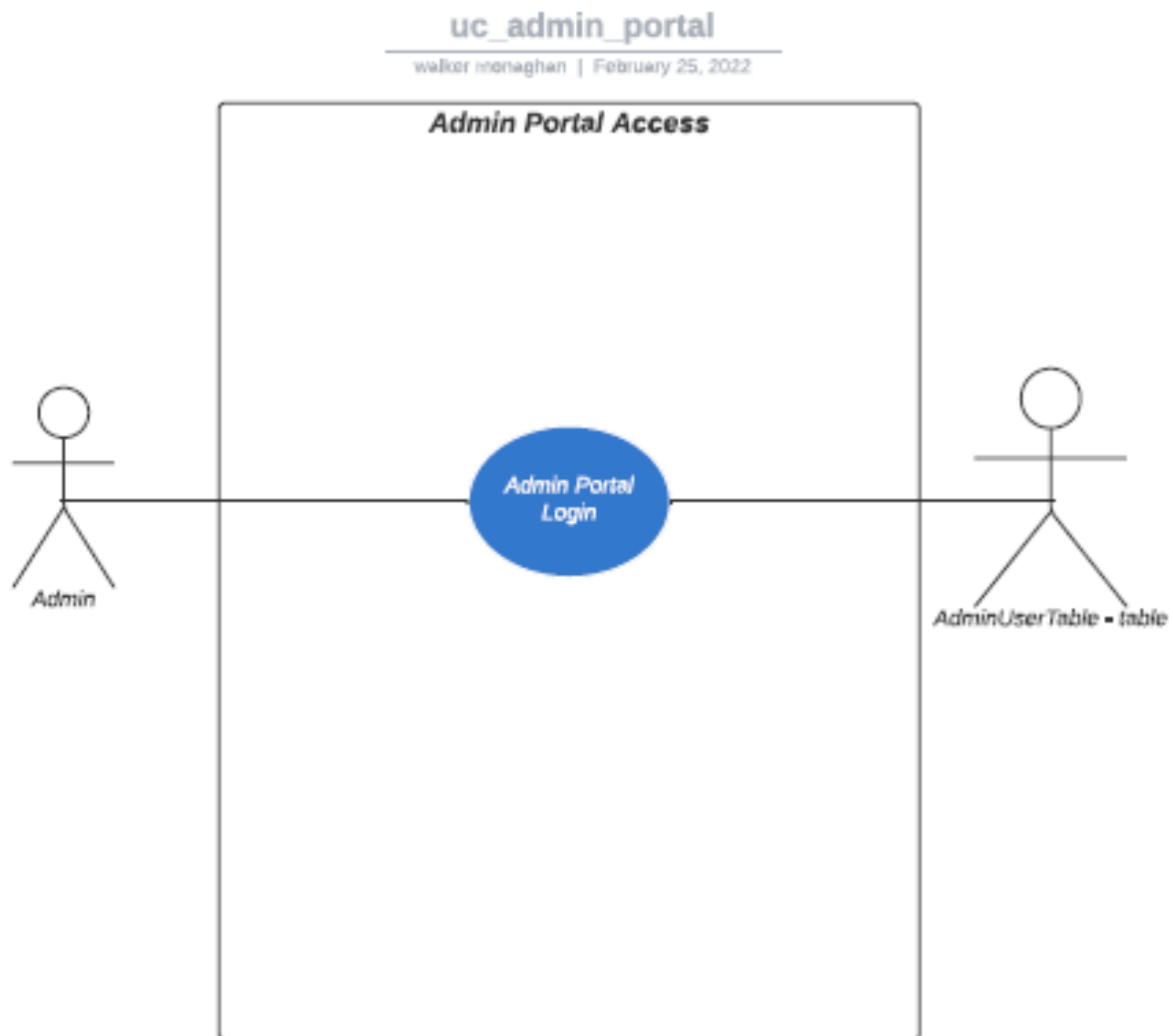
| | |
|---|---|
| **ID:** | **Confirm_purchase** |
| **Title:** | confirm purchase |
| **Description:** | Screen to accept payment credentials and submit purchase for final processing |
| **Primary Actor:** | Customer |
| **Preconditions:** | Cart must have had valid items to push through to this function and screen |
| **Postconditions:** | Confirmation of payment submitted, optional move to print_tickets |
| **Main Success Scenario:** | A customer who had previously confirmed a selection of seats in cart management moved to this function to input payment details and "submit" for final processing. |
| **Extensions:** | Error – CC could not be processed<br><br>Error – Input values invalid (expired or incorrect) |
| **Frequency of Use:** | High |
| **Status:** | Design |

## Customer - Print Tickets



uc_print_tickets

walker monaghan | February 25, 2022

print tickets

Customer

Print Tickets
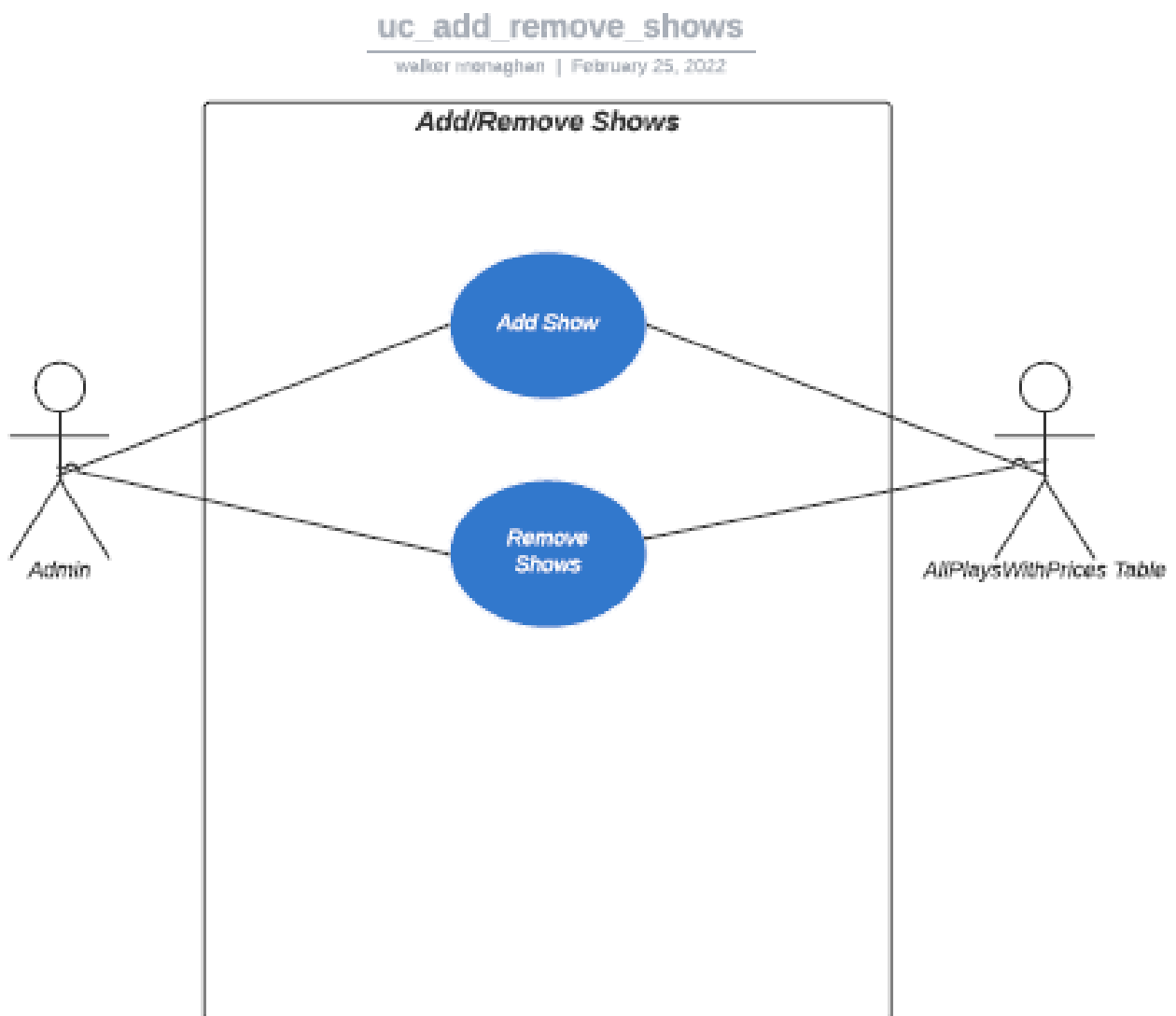
Printer

| | |
|---|---|
| **ID:** | **Print_tickets** |
| **Title:** | Print Tickets |
| **Description:** | A customer user is able to print a record of their purchase, showing seat dates, location, show, and price paid. |
| **Primary Actor:** | Customer |
| **Preconditions:** | Successfully moved past confirm purchase screen |
| **Postconditions:** | Files handed off to user print system |
| **Main Success Scenario:** | a customer, having successfully purchased tickets through Confirm Purchase is given the option to "Print Tickets" through a button. This will generate a printable pdf of purchased seats from this current transaction. |
| **Extensions:** | n/a |
| **Frequency of Use:** | High |
| **Status:** | Design |

# Admin - Admin Portal



uc_admin_portal

walker monaghan  |  February 25, 2022

**Admin Portal Access**

Admin Portal Login

Admin

AdminUserTable - table

| | |
|---|---|
| **ID:** | **Admin_portal** |
| **Title:** | Admin portal |
| **Description:** | Houses exclusive access to a serious of admin resources |
| **Primary Actor:** | Admin |
| **Preconditions:** | Static |
| **Postconditions:** | Admin user, having authenticated, sees a variety of admin-only tools: add/remove shows, adjust seat pricing, run reports. |
| **Main Success Scenario:** | Upon initial access, an admin must be authenticated. Following authentication admin tools will be visible. |
| **Extensions:** | Access error – authentication failed

Access error – Too many failed attempts |
| **Frequency of Use:** | Medium |
| **Status:** | Design |

# Admin - Add/Remove Shows
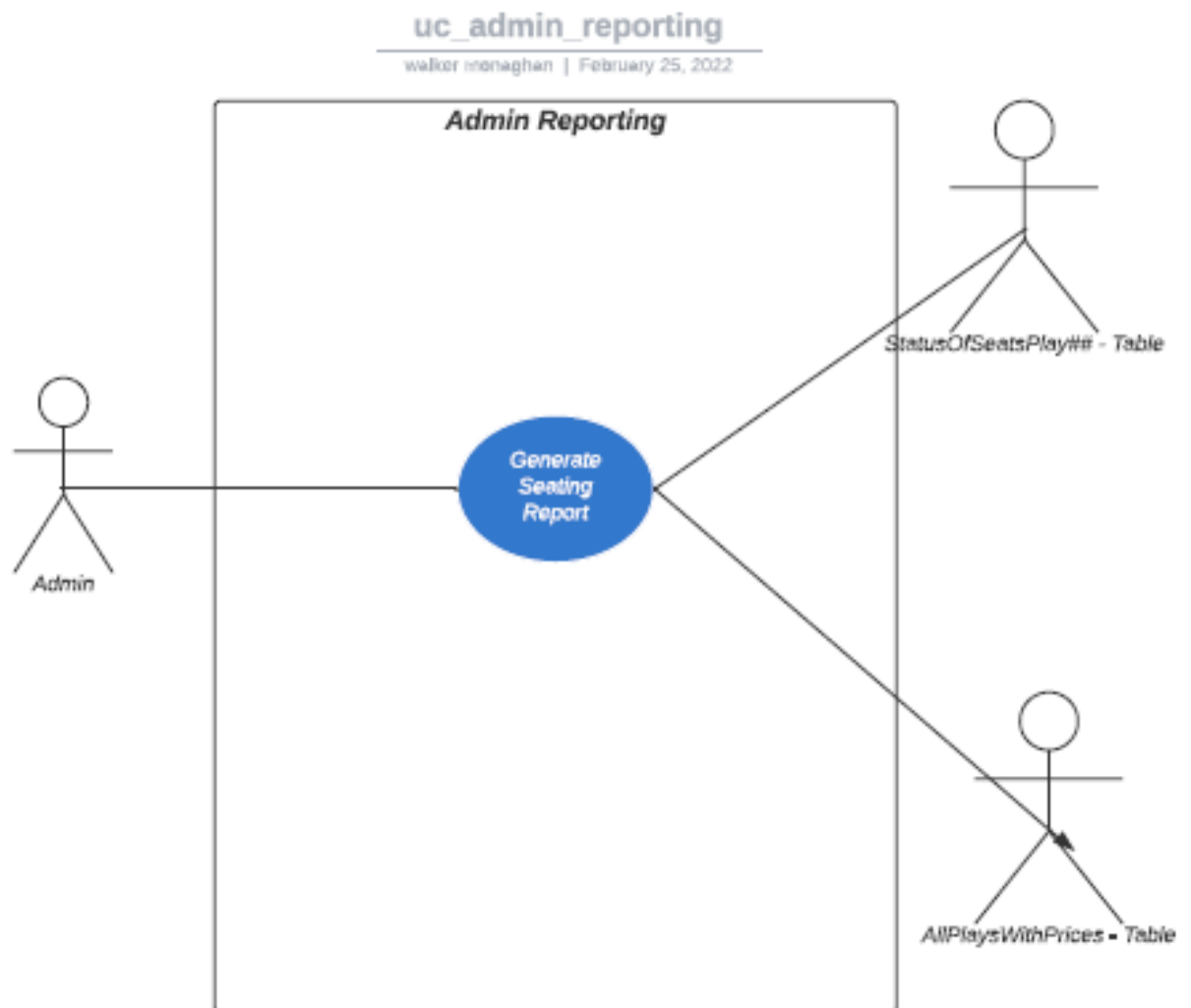
| | |
|---|---|
| **ID:** | **Add_remove_shows** |
| **Title:** | Add/Remove Shows |
| **Description:** | An authenticated admin can add additional shows or remove shows from the plays table. |
| **Primary Actor:** | Admin |
| **Preconditions:** | Authentication |
| **Postconditions:** | Modified pays table |
| **Main Success Scenario:** | a admin is able to add or remove multiple shows through a form that acts upon the website database. Following this they are able to close out, sign out, or navigate to other admin functions. |
| **Extensions:** | Error – missing key values

Error – (removal) show not found |
| **Frequency of Use:** | Medium |
| **Status:** | Design |

# Admin - Adjust Seat Pricing
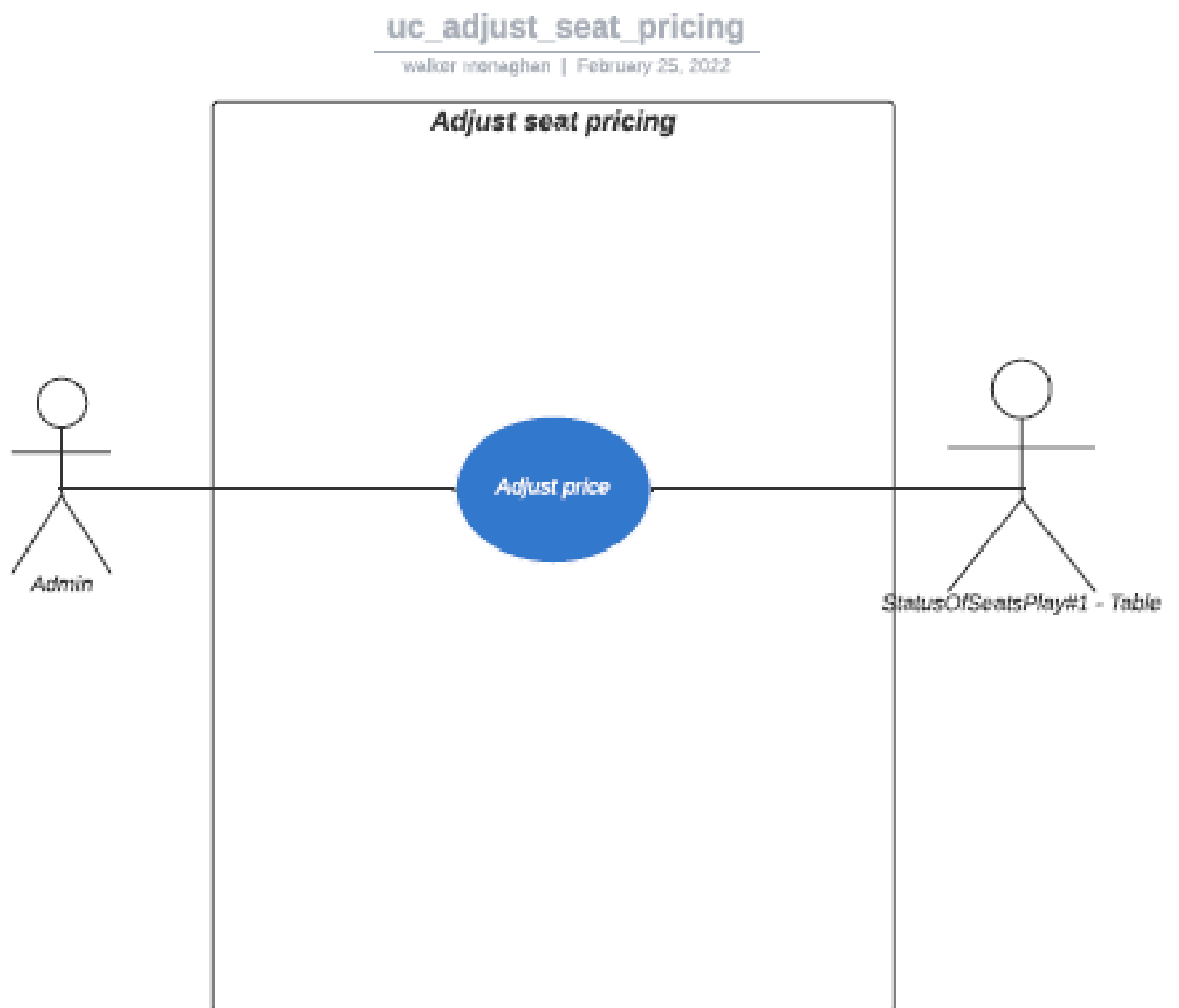
| | |
|---|---|
| **ID:** | **Adjust_seat_pricing** |
| **Title:** | Adjust Seat Pricing |
| **Description:** | Admin is able to adjust the pricing of seats in individual shows |
| **Primary Actor:** | Admin |
| **Preconditions:** | A valid show must be selected (a show that has not yet lapsed) |
| **Postconditions:** | Seat prices have been modified and updated in the website database, so they are immediately reflected from customer view |
| **Main Success Scenario:** | An admin is able to select an upcoming show, select multiple seats in the show, and adjust the pricing of those seats in groups (or individually if they choose). |
| **Extensions:** | Consideration: what if seats have already been purchased, are those locked out of pricing changes?<br><br>Consideration: if a show is already "published" can changes still be made? |
| **Frequency of Use:** | Medium |
| **Status:** | Design |

## Admin - Reporting



uc_admin_reporting
walker monaghan | February 25, 2022

Admin Reporting

Generate Seating Report

Admin

StatusOfSeatsPlay## - Table

AllPlaysWithPrices - Table

| | |
|---|---|
| **ID:** | **Admin_reporting** |
| **Title:** | Admin Reporting |
| **Description:** | An administrator is able to run a report on currently sold seats per show |
| **Primary Actor:** | Admin |
| **Preconditions:** | Admin authenticated, visible way to select a show and click a button to generate a report |
| **Postconditions:** | Report is generated with the option to print/export or clear direction to run another report. |
| **Main Success Scenario:** | An authenticated admin will access this page and see available filters to narrow down shows in question. Following that selection, a button will be pressed to generate a report showing seats sold details. |
| **Extensions:** | Error – no shows meet selected filters |
| **Frequency of Use:** | Low |
| **Status:** | design |