

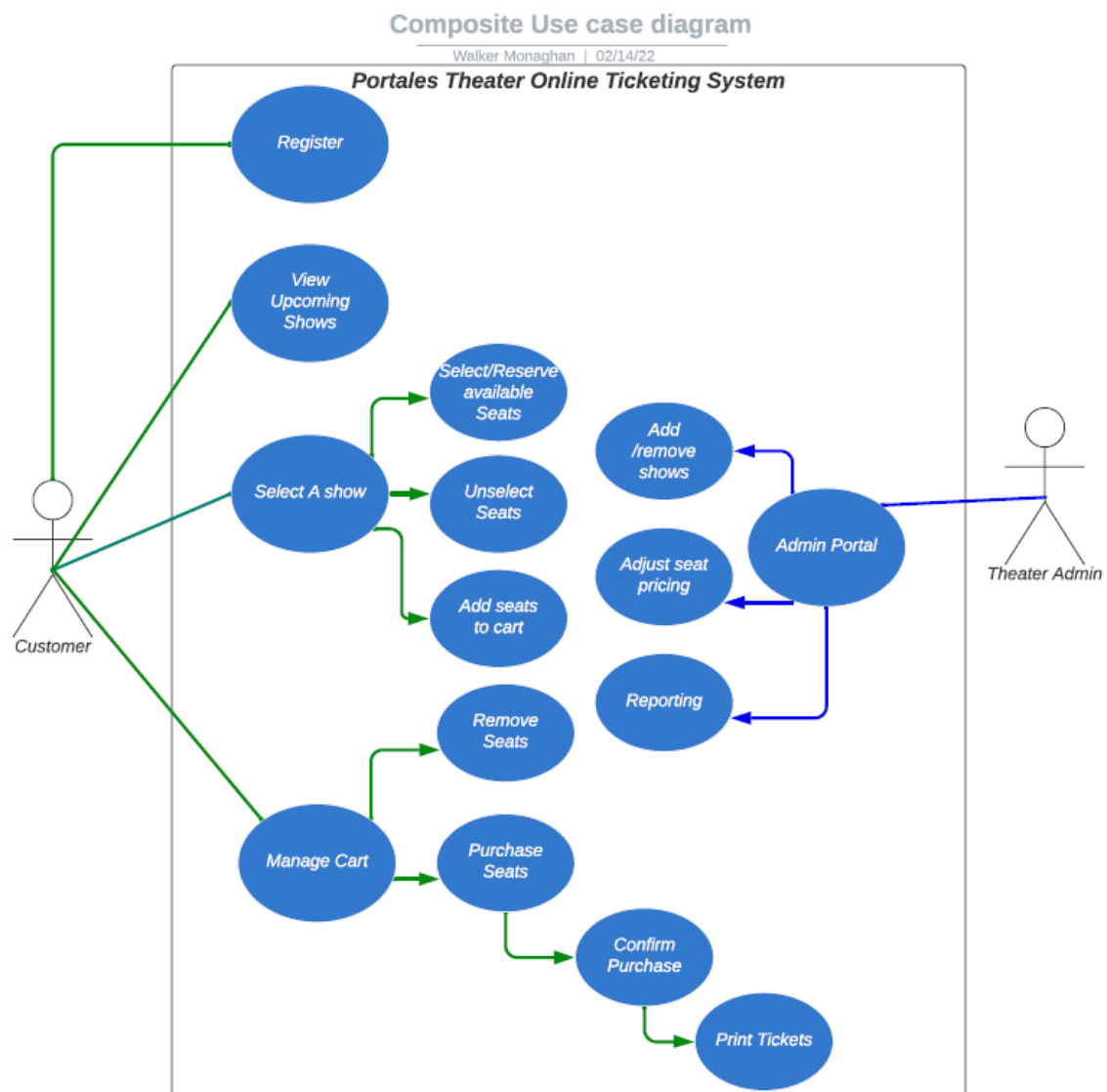
Portales Theater
Use Case Diagrams

Prepared By
Walker Monaghan
CS 472

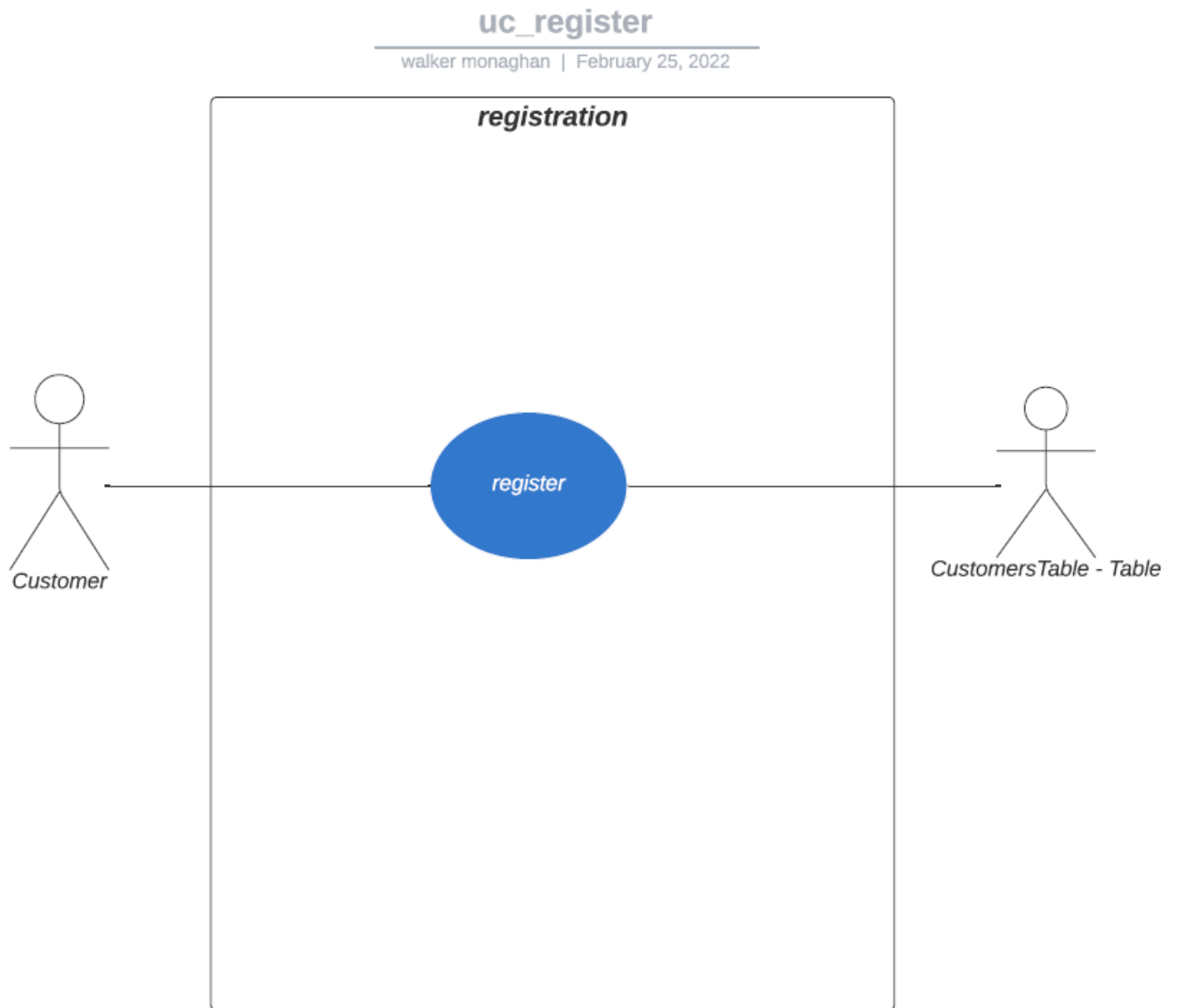
Contents

Composite Use Case Diagram for Portales Theater Project	3
Customer - Registration	4
Customer - View Upcoming Shows	6
Customer - Select a Show	8
Customer - Seat Select/Unselect	10
Customer - Add Seats to Cart.....	12
Customer - Manage Cart.....	14
Customer - Confirm Purchase	16
Customer - Print Tickets.....	Error! Bookmark not defined.
Admin - Admin Portal.....	18
Admin - Add/Remove Shows	20
Admin - Adjust Seat Pricing.....	22
Admin - Reporting.....	24

Composite Use Case Diagram for Portales Theater Project

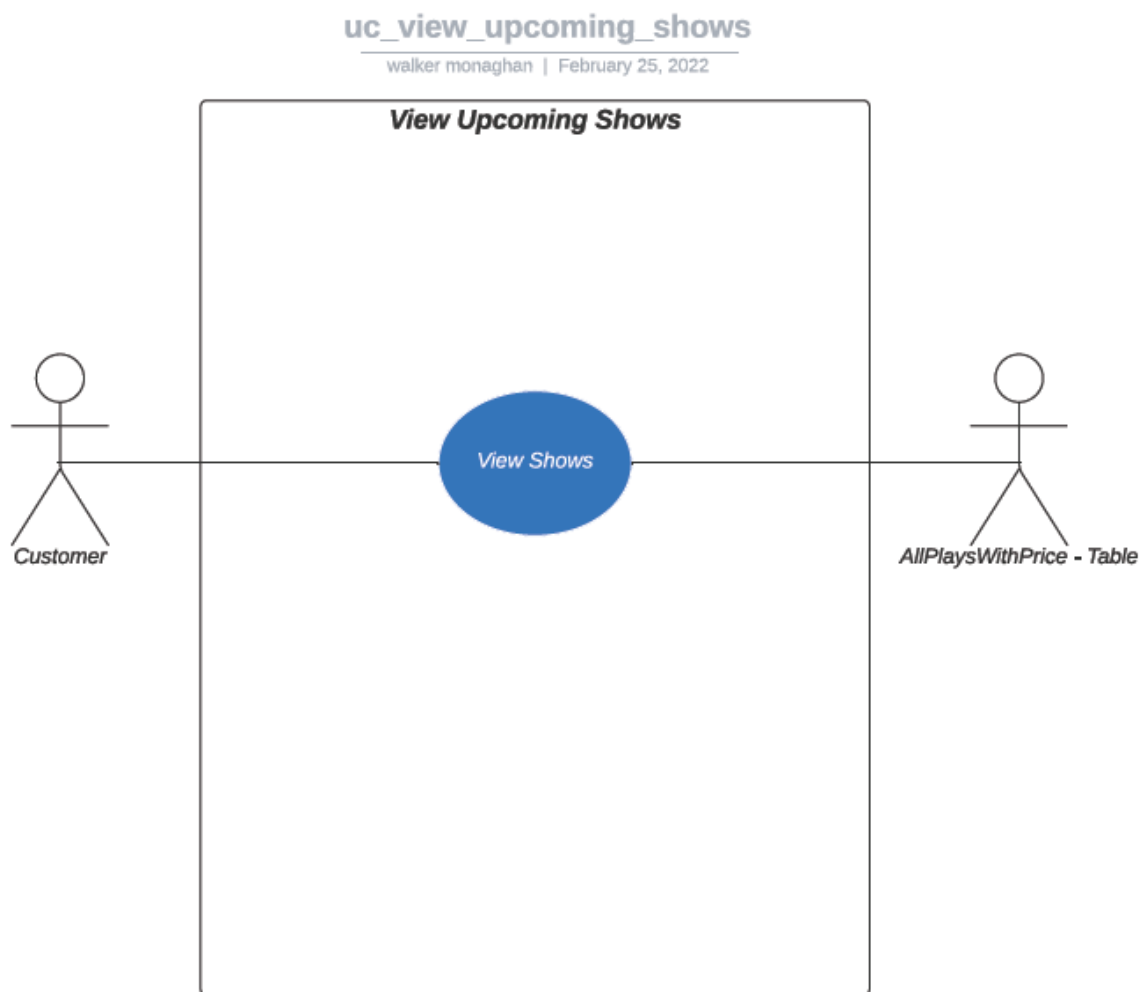


Customer - Registration



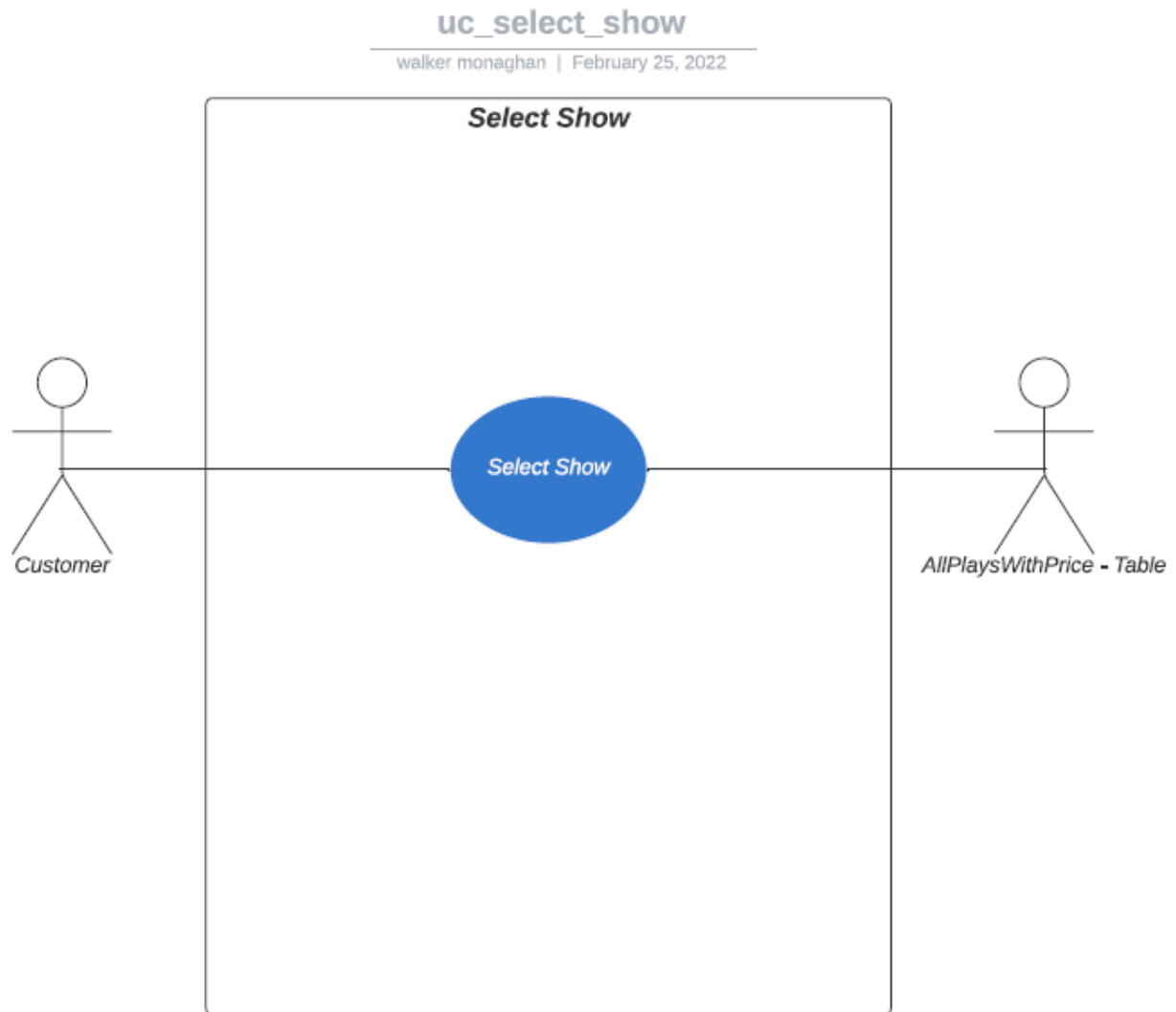
ID:	Cust_registration
Title:	Customer registers into database
Description:	<p>This will allow customers to register in the Portales Theater system, enabling use of the systems seat purchasing.</p> <p>Customer Table:</p> <p>customer_id int PRIMARY KEY, first_name varchar(30), last_name varchar(30), address varchar(50), city varchar(50), state varchar(50), zip_code varchar(10), telephone varchar(12), email varchar(50), age int(3)</p>
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 Error – lapsed shows generate
Frequency of Use:	High
Status:	Design

Customer - Select a Show

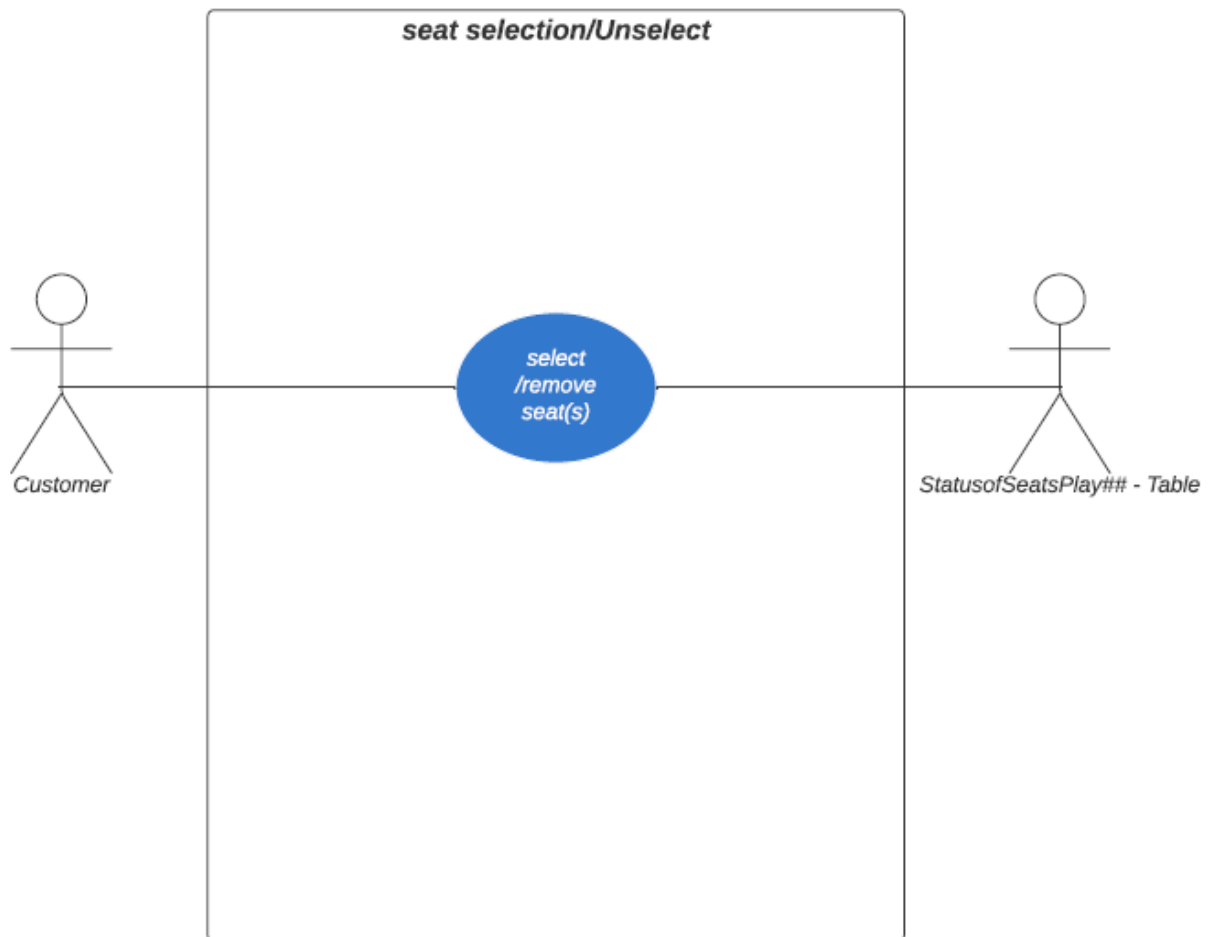


ID:	Select_show
Title:	Customer selects a show
Description:	A customer is able to select an available upcoming show
Primary Actor:	Customer
Preconditions:	Show must have been visible during view_upcoming_show
Postconditions:	Move to seat_select_unselect
Main Success Scenario:	Customer is able to select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

Customer - Seat Select/Unselect

uc_seat_selection_unselection

walker monaghan | February 25, 2022

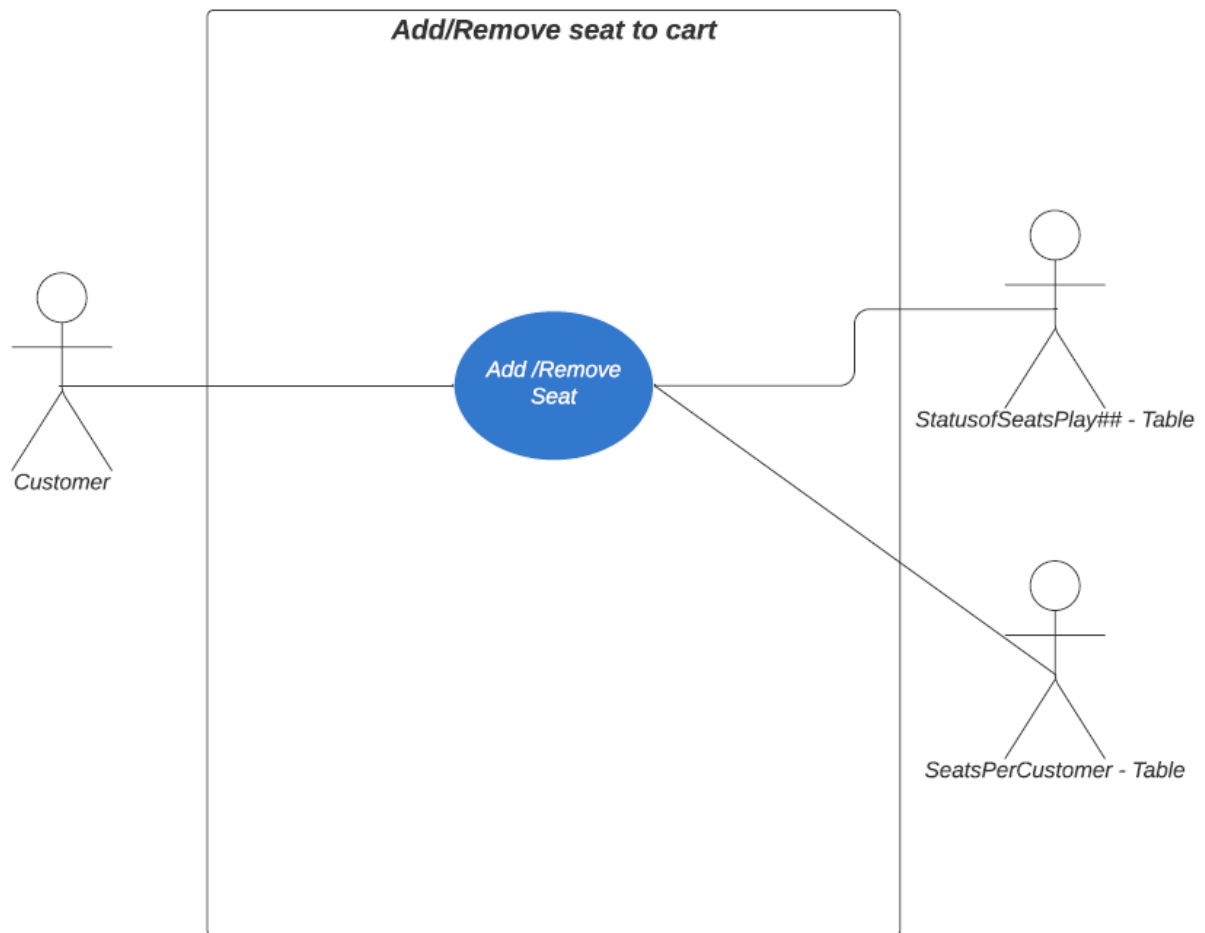


ID:	Seat_select_unselect
Title:	Customer selection and unselecting
Description:	"The customer clicks on the available..." (green) "...seats to add them to their list of seats for that play. The user can also click on a previously selected seat to remove it from their list of seats."
Primary Actor:	Customer
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 Event – customer selection times out
Frequency of Use:	high
Status:	design

Customer - Add Seats to Cart

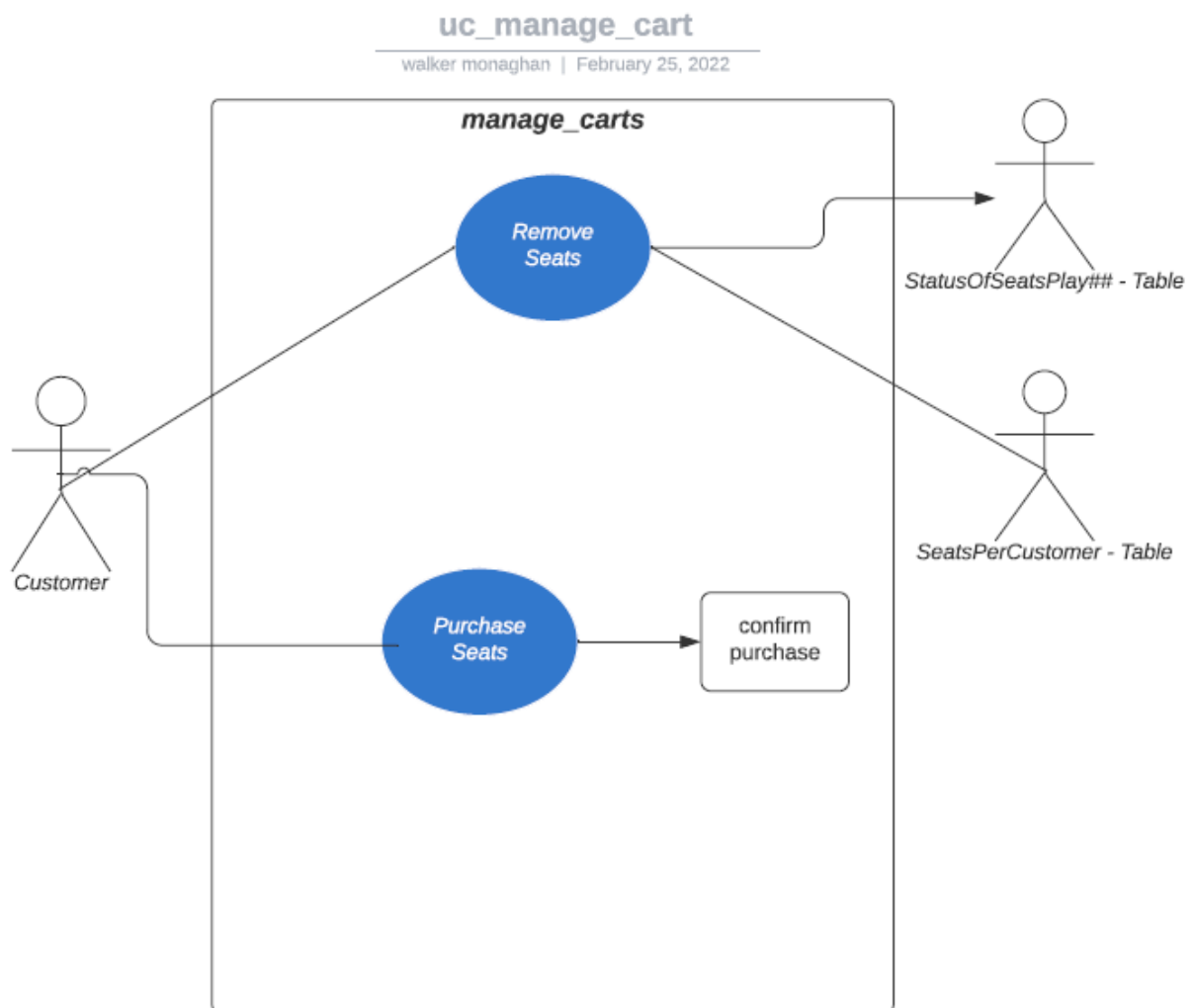
uc_add_remove_seat_to_cart

walker monaghan | February 25, 2022



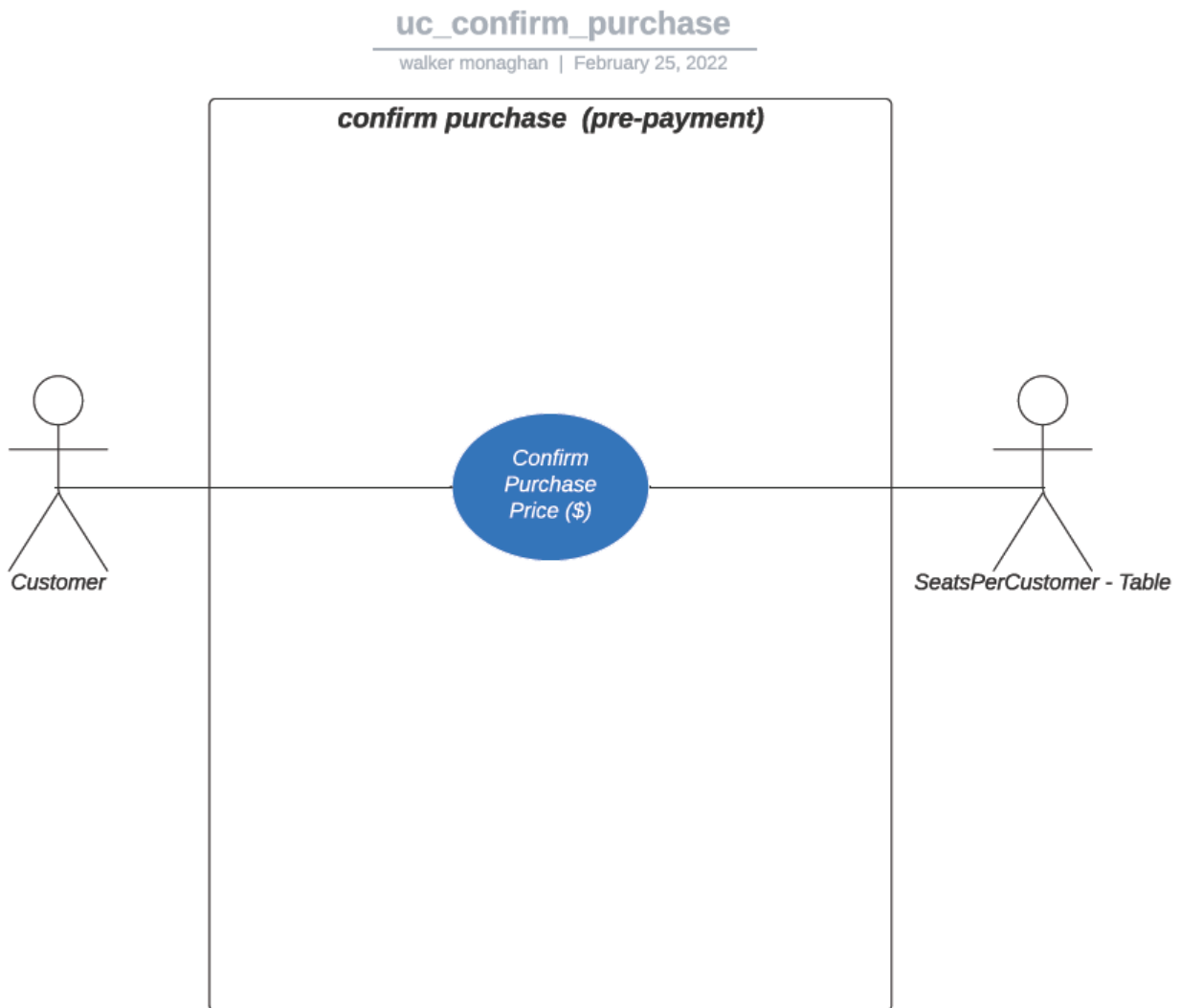
ID:	Add_remove_seat_to_cart
Title:	Add or Remove seats to cart
Description:	This interaction will allow customers to add selected seats to their cart, or, remove selected seats from cart and from reservation
Primary Actor:	Customer
Preconditions:	Desired seats have been selected in seat_select_unselect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

Customer - Manage Cart



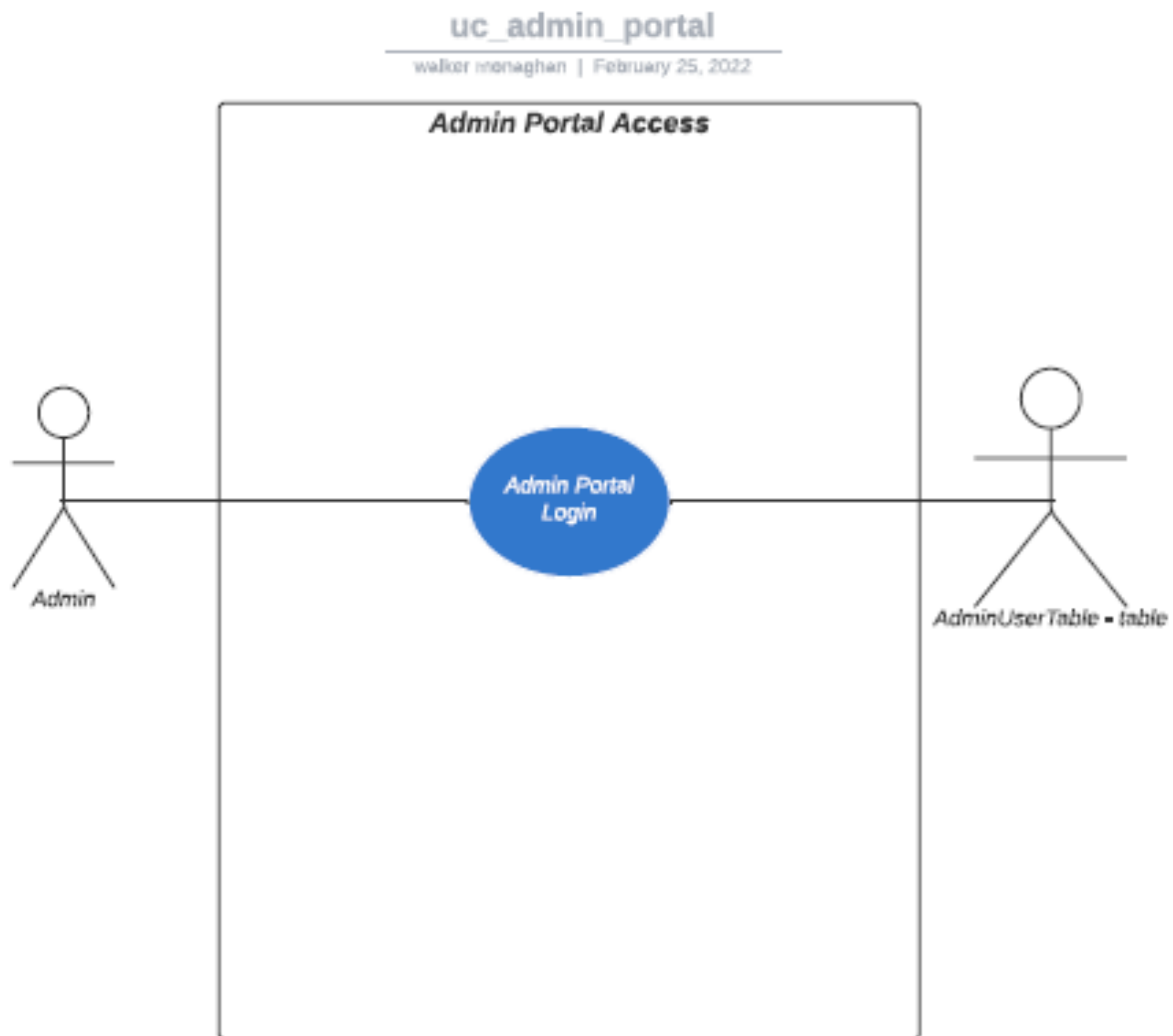
ID:	Manage_cart
Title:	Cart Management
Description:	This module will allow the customer to remove seats that have been added and/or proceed to purchase.
Primary Actor:	Customer
Preconditions:	Customer has had previous interaction that have added seats to the cart.
Postconditions:	Customer may return 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



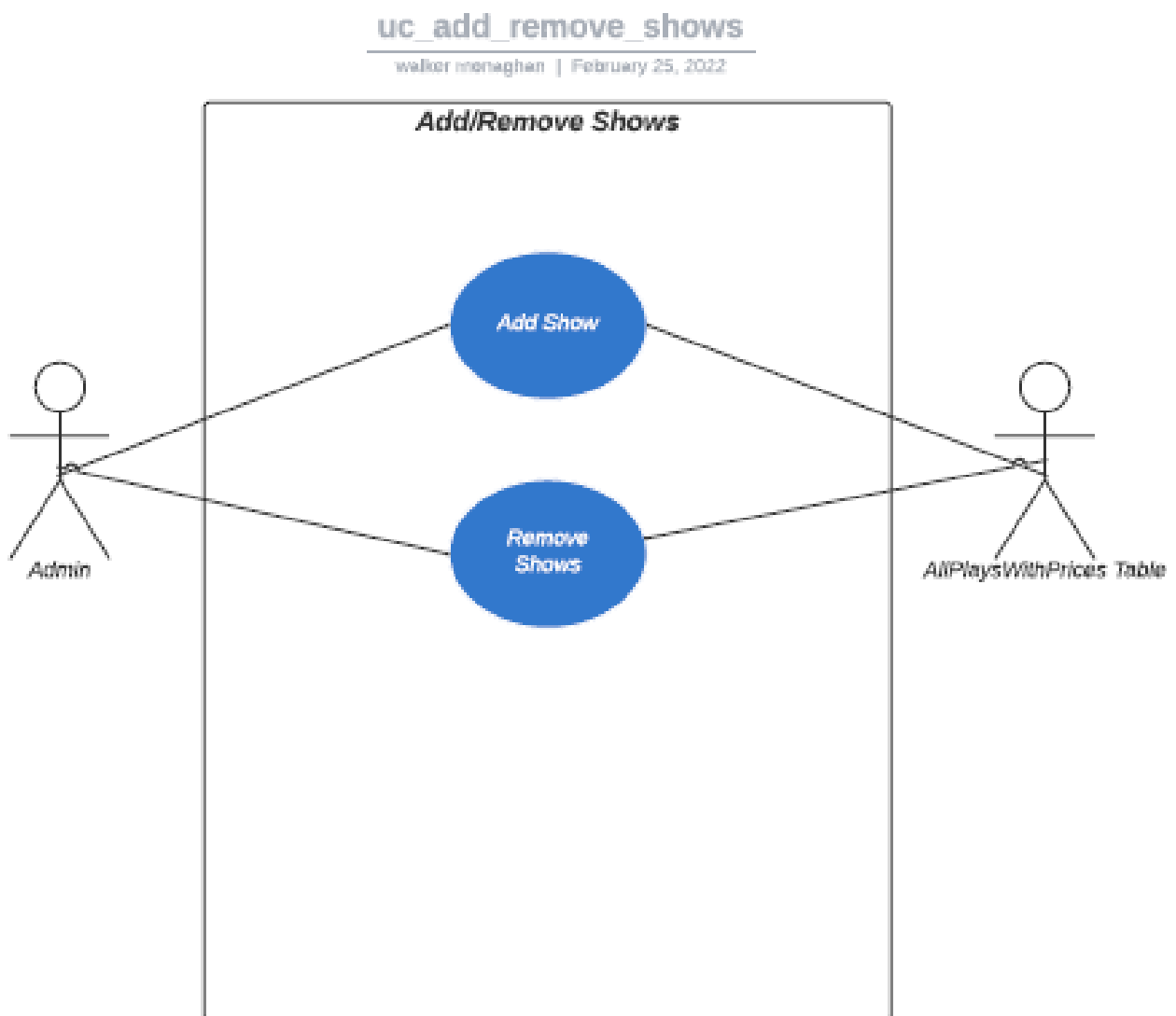
ID:	Confirm_purchase
Title:	confirm purchase
Description:	Screen to accept payment credentials and submit purchase for final processing
Primary Actor:	Customer
Preconditions:	Cart must have had valid items to push through to this function and screen
Postconditions:	Confirmation of payment submitted, 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 Error – Input values invalid (expired or incorrect)
Frequency of Use:	High
Status:	Design

Admin - Admin Portal



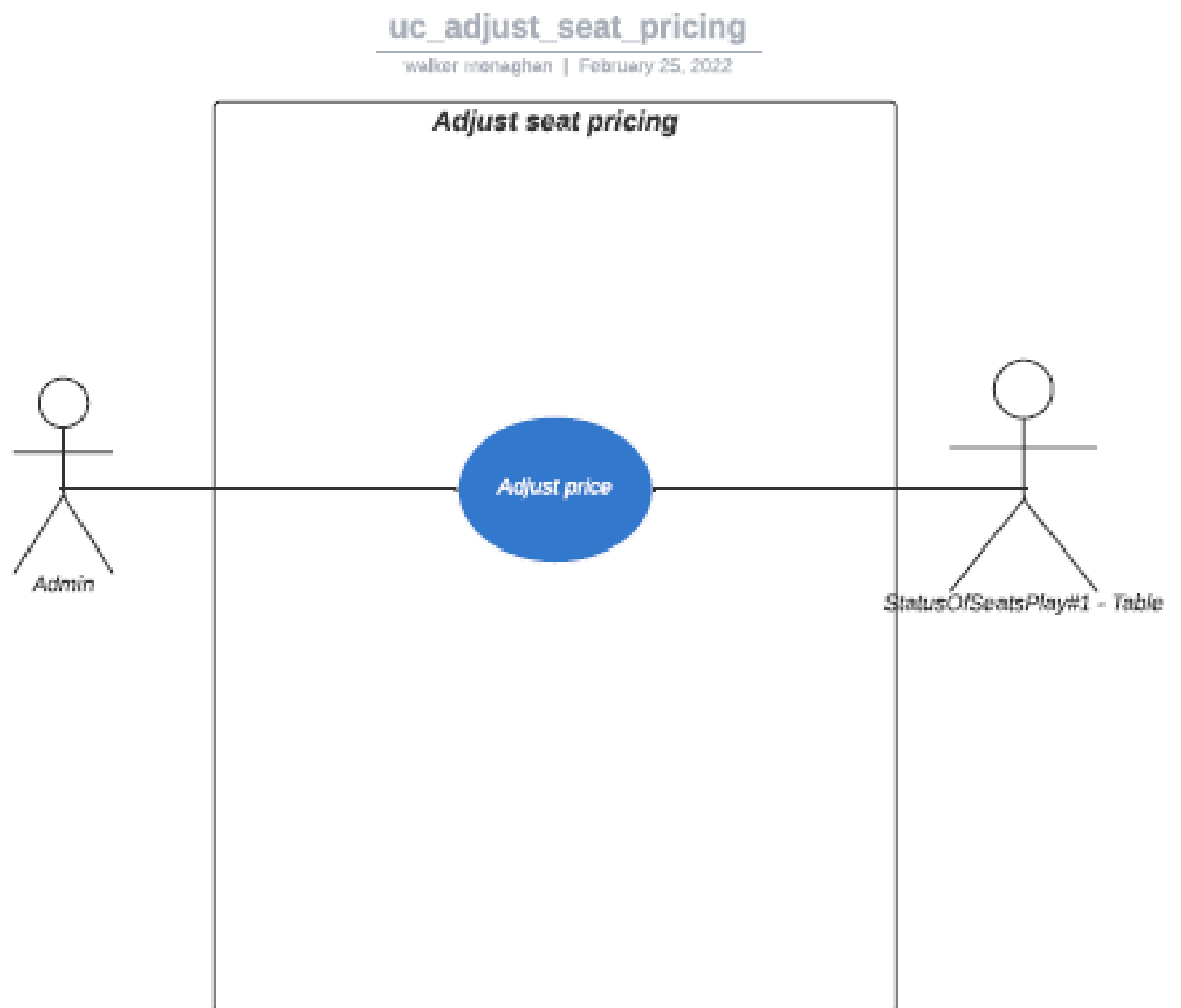
ID:	Admin_portal
Title:	Admin portal
Description:	Houses exclusive access to a series of admin resources
Primary Actor:	Admin
Preconditions:	Static
Postconditions:	Admin user, having authenticated, sees a variety of admin-only tools: add/remove shows, adjust seat pricing, run reports.
Main Success Scenario:	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



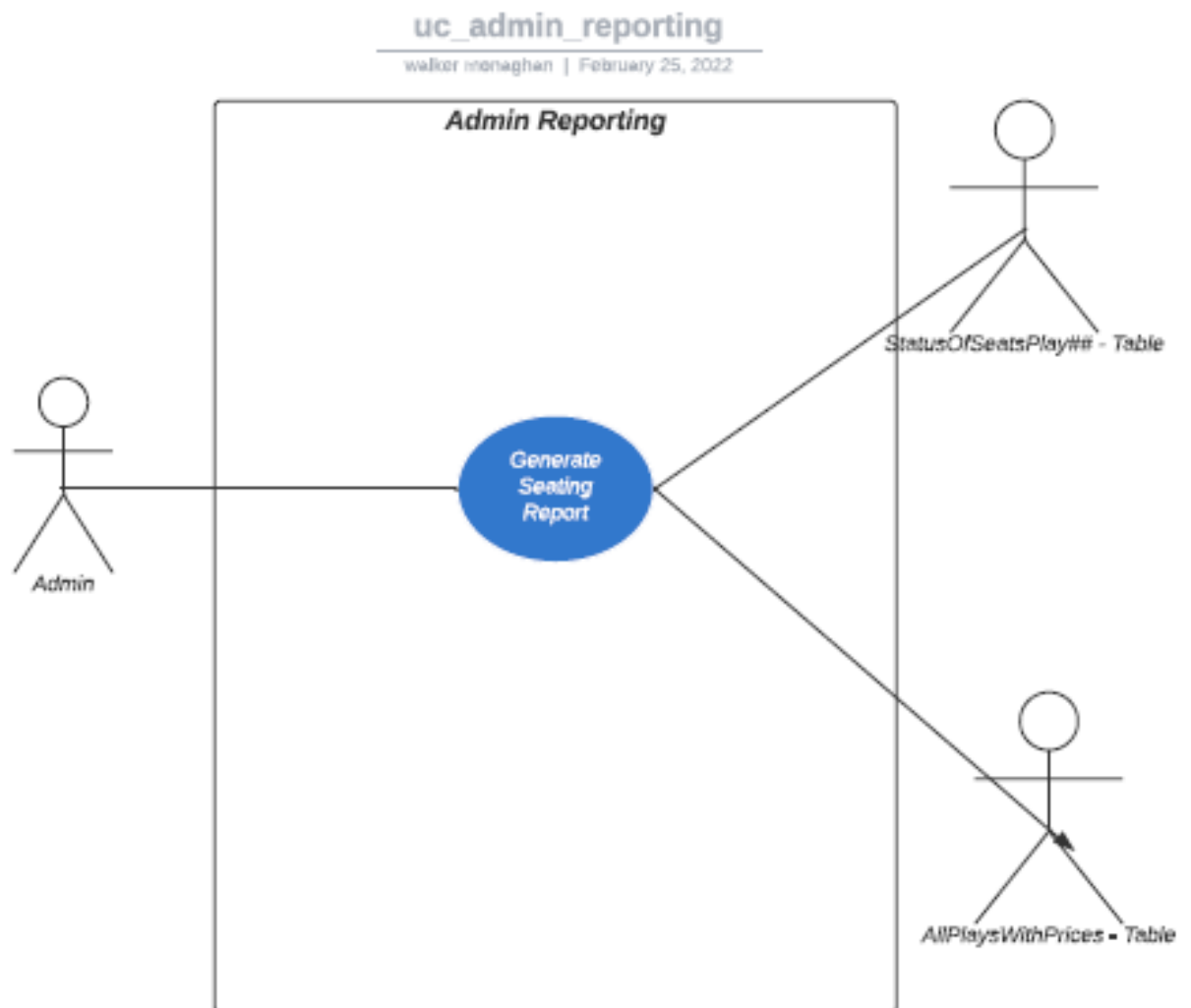
ID:	Add_remove_shows
Title:	Add/Remove Shows
Description:	An authenticated admin can add additional shows or remove shows from the plays table.
Primary Actor:	Admin
Preconditions:	Authentication
Postconditions:	Modified pays table
Main Success Scenario:	a admin is able to add or remove multiple shows 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:	<p>Consideration: what if seats have already been purchased, are those locked out of pricing changes?</p> <p>Consideration: if a show is already “published” can changes still be made?</p>
Frequency of Use:	Medium
Status:	Design

Admin - Reporting



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