Project Progress Report

Project Title: Theatre Reservation Website

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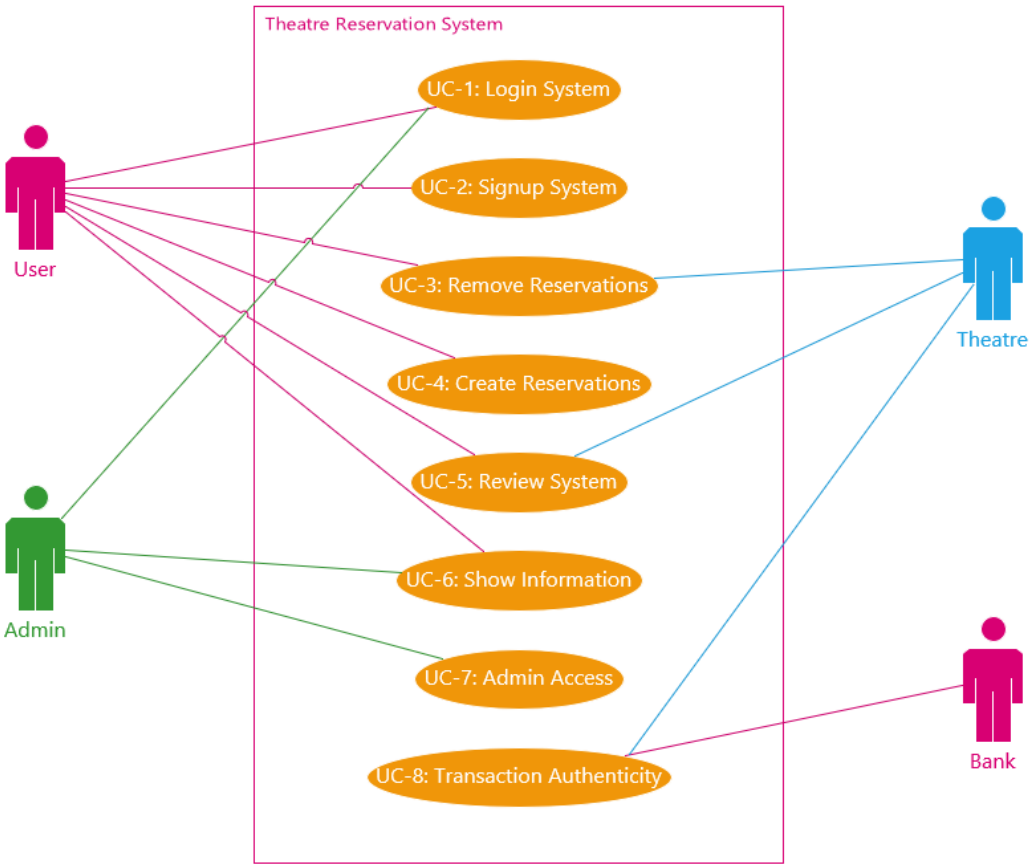
Use Case Model



Use Case	Description
UC-1: Login System	Users can login to the website through their existing email/password credentials. During a successful login, the user has access to view and update account information, as well as booking upcoming reservations.
UC-2: Signup System	Users can register through the website using their personal credentials. Upon successful registration, the user can access their account.
UC-3: Remove Reservations	Users must be able to cancel their existing reservations.
UC-4: Create Reservations	Users must be able to purchase or reserve multiple tickets at once for a single screening of a show.
UC-5: Review System	Users can rate and write a review for a show. Other users can view other reviews and can upvote reviews. The average rating for a show will be displayed.
UC-6: Show Information	Users can view and select performance description, times, and prices.
UC-7: Admin Access	Website administrators can login to the website and can edit, create, or delete show information. Admin has access to view the total amount of reservations for a show, as well as total accounts made.
UC-8: Transaction Authenticity	Website is able to charge and communicate with users bank accounts on successful reservation creation or deletion.

Quality Attribute Scenarios

ID	Quality Attribute	Scenario	Associated Use Case	Priority
QA-1	Security	An existing user enters an incorrect login, resulting in the login attempt being rejected. The user will have the option to reset their password through their email. The website will only send the password to the email if the user correctly answers the security question.	UC-1 (Login System)	H,M
QA-2	Security	A new user enters an already existing email address, to which the user is notified that the provided email is already in use and cannot be used for another account.	UC-2 (Signup System)	H,M
QA-3	Usability	A user removes a reservation for a show that is already in progress. The system responds with an alert to the user stating that the action is invalid, and will not issue a refund.	UC-3 (Remove Reservations)	L,L
QA-4	Performance Availability	The existing database specified in CON-4, should be able to retrieve and update data to and from the client side within 5 seconds. The database system will schedule a restart once a day for 1 minute to ensure its data integrity.	All	M,M
QA-5	Modifiability	A new show is introduced to the system as part of an update to the schedule. It should be added successfully without any change to the core of the system.	UC-7 (Admin Access)	M,M
QA-6	Usability	A user attempts to place a review for a show they have not watched. Their attempt to review will be rejected and the user will be notified that they must purchase a ticket first.	UC-5 (Review System)	L,L
QA-7	Security	A malicious hacker inputs an SQL injection while logging/signing in. The system prevents the data being deleted or stolen by using a standard md5 hash.	UC-1/UC-2 (Login/ Signup System)	H,H

QA-8	Security	Customer attempts to create a reservation and uses a credit card to pay for the order. The bank rejects the credit, as a result the reservation will be placed on hold for 24 hours until a payment is received. If not, the reservation will be deleted.	UC-8 (Transaction Authenticity)	H,H
QA-9	Usability	Customer attempts to create a reservation involving multiple seats. The system allows this and adjusts cost accordingly. The reservation will hold multiple seats within one order.	UC-4 (Create Reservations)	H,M

System Constraints

ID	**Constraint**
CON-1	Development team is familiar with Web Programming applications including HTML, PHP, SQL.
CON-2	User workstations use the following operating systems: Windows and Linux.
CON-3	Deadline for the complete Attribute Driven Design process in December
CON-4	Must use the theatre's existing databases.
CON-5	The system must be accessed through a web browser such as Chrome or Firefox while on different operating systems.
CON-6	The system will perform a monthly backup of the database in case of main database corruption.