

## Title page

- Theater Ticketing System
- 2/28/2024
- Group #17
- Hosna Hyat
- Isabelle Yuson
- Edith Urquijo

## System Description

- The theater ticketing system contains an online program (website) that allows up to many people to access the website simultaneously and buy tickets for a movie of their choice. It is organized in a way so that the user can order and buy tickets ahead of time for said movie or shortly after the movie starts. When the user goes onto the page of the selected movie, they're given many options such as checking out reviews, leaving customer feedback, or the possibility of leaving a discount to encourage the user to buy tickets

## Software Architecture Overview

- Architectural diagram of all major components
- UML Class Diagram
- Description of classes
- Description of attributes
- Description of operations
  - \* descriptions should be detailed and specify datatypes, function interfaces, parameters, etc...

<b>Ticket</b> Represents a ticket for a movie	Functions
Movie Title <ul style="list-style-type: none"><li>• string variable that holds the title of the movie</li></ul>	reserveTicket() <ul style="list-style-type: none"><li>• reserves a ticket for a specific showtime and seat</li><li>• involves all attributes</li></ul>
Showtime <ul style="list-style-type: none"><li>• int or string variable that displays the time that said movie starts</li></ul>	cancelTicket() <ul style="list-style-type: none"><li>• cancels a reserved ticket</li><li>• ticket must be under the reserved status</li></ul>
Seat Number <ul style="list-style-type: none"><li>• int variable that stores the seat number for each ticket</li></ul>	getTicketDetails <ul style="list-style-type: none"><li>• displays details of the ticket</li><li>• getter function</li><li>• involves all attributes</li></ul>
Ticket Price	

<ul style="list-style-type: none"> <li>double variable that stores the price of the ticket</li> </ul>	
<b>Ticket Status</b> <ul style="list-style-type: none"> <li>boolean or string variable that displays the current status of the ticket (booked, canceled)</li> </ul>	

<b>Movie</b> Represents a movie and its availability for screening at the theater	<b>Functions</b>
<b>Title</b> <ul style="list-style-type: none"> <li>string variable that stores the title of the movie</li> </ul>	<b>getMovieDetails():</b> <ul style="list-style-type: none"> <li>getter</li> <li>displays the details of the movie</li> <li>involves all attributes (or only a select few to keep details minimal)</li> </ul>
<b>Genre</b> <ul style="list-style-type: none"> <li>string variable that stores the title of the movie</li> </ul>	<b>checkShowtime()</b> <ul style="list-style-type: none"> <li>retrieves and displays available showtimes for a movie</li> <li>this would probably need to access the ticket class or something to find available showtimes</li> </ul>
<b>Release Date</b> <ul style="list-style-type: none"> <li>string variable that stores the date of when the movie was released</li> </ul>	<b>checkAvailability()</b> <ul style="list-style-type: none"> <li>checks the availability of seats for a specific showtime</li> <li>would also probably need to access the ticket class for available seats unless we put it all under the movie class</li> </ul>
<b>Duration</b> <ul style="list-style-type: none"> <li>int or double variable that stores how long the movie is</li> </ul>	
<b>Director</b> <ul style="list-style-type: none"> <li>string variable that displays who the director(s) of the movie is/are</li> </ul>	
<b>Cast</b> <ul style="list-style-type: none"> <li>string (or list maybe) variable that displays the cast of the movie</li> </ul>	
<b>Synopsis</b> <ul style="list-style-type: none"> <li>string variable that stores the synopsis</li> </ul>	

or brief outline of the movie	
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<b>FeedbackSystem</b> Database for review and customer feedbacks	Functions
Review <ul style="list-style-type: none"> <li>list to store reviews</li> </ul>	createReview() <ul style="list-style-type: none"> <li>adds reviews given by the user onto an existing list</li> </ul>
Rating <ul style="list-style-type: none"> <li>list to store ratings</li> </ul>	displayReview() <ul style="list-style-type: none"> <li>displays a specific review</li> <li>would prob need to call another variable to specify what review is being called</li> </ul>
Feedback <ul style="list-style-type: none"> <li>list to store feedback</li> </ul>	getRating <ul style="list-style-type: none"> <li>getter</li> <li>displays the rating from a review that was inputted by the user</li> </ul>
	createFeedback() <ul style="list-style-type: none"> <li>adds feedback given by the user onto an existing list</li> </ul>

#### Development plan and timeline

- Partitioning of tasks
- Team member responsibilities