CS 6314 Project Report

*Online Movie Theater Application*

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Team 10 Member: Yibo Cheng

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**Introduction**

The purpose of this project is to create an online movie theater web application. Several functions are presented in the project. From customer perspective, new movies will be available to them and customer will be able to search a movie and reserve seats for the time they select. From movie theater perspective, the official is able to manage the details of movie, ticket, customer, show timing. It manages all the necessary administrative functions. Few assumptions will be made based upon real world situation. First of all, user registration is only limited to the regular customer and website administrator will be given the only account without registering themselves. Second, each user is only allowed to buy limited number of tickets for each specific movie. Meanwhile, it is designed to allow customers to add only one movie at a time to the shopping cart. If there is a movie in the shopping needed to be checkout, user will not be able to add another one. All these limitations and constraints are considered for the fairness and anti-speculation.

**Database Design**

**Languages and Frameworks for Implementation**

As for this project, the team choose the languages and frameworks taught in the class. For the front end, CSS, HTML and JAVASCRIPT is used to build up the general layout and appearance of the website. To make the website presented in a more beautiful and professional way, bootstrap is used. For the easiness of frontend and backend communication, the team utilizes the functions brought by jQuery and mainly its element selection and ajax function. Backend is heavily relied on the PHP languages and it is used to connect frontend with database and process the requested data. Relational database design is used for the reason that it could better present the relations and make it easier for storing data and information.

**Main Functions**

**Team Evaluation**

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| Member Name | NetID | Responsibilities |
| Yibo Cheng | YXC190039 | Responsible for frontend setup including all html, CSS, JavaScript files. Took part in database design |
| Mo Han | MXH190001 | Responsible for all php files that are used to process data send from frontend and also requested data send to frontend. Took part in database design |
| Minchao Zhu | MXZ190002 | Responsible for database setup and creation. Provide support for both front and back end setup |