**Project Proposal**

**Cinema Ticket Reservation System**

Prepared by

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# **List of team members**

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| **\*** | **Team Members** |
| 1 | Ran Zhu |
| 2 | Qianqian Zheng |

# **Introduction**

## Website Planning and design

Experiment Overview: Design pages using web design techniques such as tables and links (with links between each page), interacting with the back-end database.

The specific steps are as follows:

1. Planning and preparation, create a mock-up of front-end web design.
2. Using HTML, CSS and JAVASCRIPT to achieve the creation of front-end pages.
3. Create Database.
4. Using Java Spring framework to create, modify, delete tables in the database and perform various operations on the tables.
5. Extract dynamic data from database to interact with front-end pages.

# Requirement & Functions of website

## Primary responsibilities

1. Provide customers direct access to the website to:

* Login to account / Register an account
* Check order history
* Cancel or modify order
* Check all movies currently in theaters
* Check available seats for each movie show
* Book tickets through website
* Modify profile information

1. Provide administrators with access to check tickets sold, browse all orders, add new movies, remove current movies, manage current orders and so on.

* Check total revenue
* Check all tickets sold
* Browse all orders
* Add new movie
* Remove current movie
* Manage current order
* Manage branches information

# **Database**

## Tables

1. Table **User** – store users’ information (username, email, and password).
2. Table **Comment** – store user evaluation information for movies
3. Table **Movie** – Information on all movies currently in theaters
4. Table **Cinema** - Theater ID, Theater Name, Theater Address
5. Table **Hall** - Store the information of each auditorium including auditorium id, corresponding cinema and capacity
6. Table **ticket** – store Movie ticket ID, user ID, seat number etc.
7. Table **session** - store movie information such as movie ID, movie starring, movie details, movie duration, movie type, rating, poster, number of participants, release time, release location

## Diagram of Database:

Diagram

Description automatically generated

# Mock-ups

## Index Page

Graphical user interface, application

Description automatically generated

## Movie Page

A screenshot of a video game

Description automatically generated with medium confidence

## Ticket Page

A screenshot of a camera

Description automatically generated with medium confidence

## Seat Selection Page

A screenshot of a video game

Description automatically generated with medium confidence

## Payment Page

Graphical user interface, application, Teams

Description automatically generated

## Login Page

A picture containing indoor, keyboard

Description automatically generated

## Admin Dashboard Page

Graphical user interface, application

Description automatically generated