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# Group 01

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**Web Movie Booking  
Vision (Small Project)**

**Version <1.0>**

### Revision History

Date	Version	Description	Author
05/11/2022	1.0	Vision documentation	Group 01
20/11/2022	1.1	Clarifying Non-Functional Requirements	Group 01

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## **Vision (Small Project)**

### **1. Introduction**

#### **1.1 Purpose**

The purpose of this document is to define the high-level requirements of the Movie Booking system in terms of the needs of the end users

#### **1.2 Scope**

This Vision Document applies to the Web Movie Booking system, which will be developed by the Group 01 Team.

The Web Movie Booking system will allow users to book tickers online. Users can reserve seats, select the movies, and search for different types of movies on the system.

#### **1.3 Definitions, Acronyms and Abbreviations**

#### **1.4 Reference**

Applicable references are:

1. Slide of Teacher: Nguyen Thi Minh Tuyen
2. Video of teaching assistant: Ho Tuan Thanh
3. Other website has same function: CGV.vn, galaxyplay.vn

### **2. Positioning**

#### **2.1 Problem Statement**

The problem of	The system is out of date, users have to go to the cinema to buy tickets themselves, do not authorized for each position.
affects	Customers who want to buy movie tickets , cinema's staff
the impact of which is	A slow and costly process combined with dissatisfied users and movie theater staff.
a successful solution would be	Develop software so that users can buy movie tickets online quickly, can authorize for staff and user

#### **2.2 Product Position Statement**

For	Customers who want to buy movie tickets , cinema's staff
Who	Buy tickets, administer film's catalog
The (product name)	Web Movie Booking
That	Enables buy tickets online, search film's name, can authorize access.
Unlike	The existing outdated web
Our product	Provides up-to-date information on all movie, registrations, search, ... to all users from any PC connected the internet.

### **3. Stakeholder and User Descriptions**

This section describes the users of the Web Movie Booking. There are 3 types of the users of the Web Movie Booking: users, movie theater staff, and admin.

### 1. Stakeholder Summary

Name	Description	Responsibilities
Group 01	Development Team	Responsible for project funding approval. Monitors project progress.
Supervisor	Tutorial about project	Guide for student (Group 01) to complete the project.
User	User	Ensures that the system will meet the needs of users, can buy tickets online.
Staff	Staff	Update, delete, add information of movie.

### 2. User Summary

Name	Description	Responsibilities	Stakeholder
User	Registers for account, login-logout account, can search movie's name, payment, vote star for film.	Ensures that the system will meet the needs of users, can buy tickets online.	Self-represented.
Staff	Administer movie's catalog, add- update- delete information of movie.	Update, delete, add information of movie.	Self-represented.

### 3. User Environment

- The users can use the computer, book online seat reservation, register, log in and provide some personal information. It takes the user a few minutes to carry out the basic steps. Specially that, you only consume 2-3 minutes to register and log in the web, but the users think to choose a suitable seat in case desired seat is being booked. The unique environmental constraints are mobile, in-flight, and a place where don't have Internet. Today, System platforms are web app. In the future, it will be developed to mobile app and integrate with other services like PayPal.

### 4. Summary Key Stakeholder or User Needs

Need	Priority	Concerns	Current Solution	Proposed Solutions
Book movie ticket	High	The user can't buy the ticket.	Currently the user who book online tickets has to wait in line, it takes more time to buy tickets.	The user would like to have online to access quickly, book the ticket easily and have a desired seat.

### 5. Alternatives and Competition

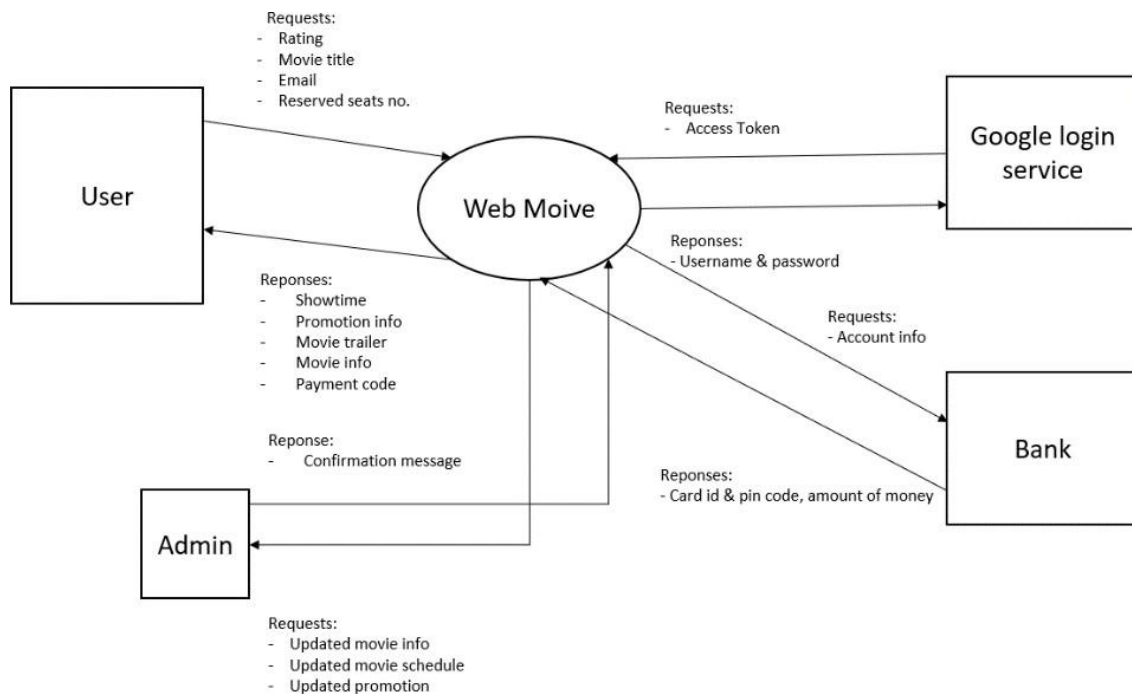
The user community is not aware of any possible alternatives or peripheral solutions. The user community

supports the view that the system should be developed to authorize access, to book tickets online to ensure proper functionality and to ensure continuous support and maintenance on the system.

#### 4. Product Overview

The section provides a high-level view of the Web Movie Booking capabilities, interfaces to the external Billing System and Movie Catalog Database system, and the system configuration.

##### 4.1 Product Perspective



##### 4.2 Assumptions and Dependencies

The following assumptions and dependencies relate to capabilities of the Movie Web as outlined in this Vision Document:

- The web can be responsive in Mobile
- The web online 24/7 and update new latest movie

#### 5. Product Features

No	Features	Description	Priority
1	Register new account	For new user could register an account	High
2	Log in, log out, forgot password		High
3	Authorization for staff and user	Authorized for only staff could do	High

4	Book movie tickets	Customers book a movie online, choose seat and purchase by digital payment.	High
5	View available movies in cinema		High
6	Staff upload, edit and delete a specific movie		High
7	Searching film		Medium
8	Film recommendation for customer		Medium
9	Comments and ratings for customers		Low
10	View information of user		Low

## 6. Non-Functional Requirements

Non-function requirements	Hardware-Platform	Quality ranges for performance, robustness, fault tolerance, usability	Note	Define any specific documentation requirements	Define the priority
	No requirement	<ul style="list-style-type: none"> <li>- The system shall be able to run without bug related to customers digital payment.</li> <li>- The system shall support user at least 10 users account at the same time.</li> </ul>			

### Non-Functional Requirements

- Security
  - User's password encoded before into database
  - When user pay online, the system isn't allowed to store the user's credit card information
  - Use of captcha and encryption to avoid bots from booking tickets
- Performance
  - Up to 30 data fields, no complex data calculations, no interaction with external systems, can store data directly to the DB, and do not store large content files such as: images, videos, the file is over 3MB.
  - Data is queried directly from the DB, limiting complex queries and queries from external systems.
  - Displays up to 50 rows of data, up to 10 columns each, and each data is less than 100 characters in length.
  - Normal load conditions: 30 CCUs (concurrent user) when load balancing is not in use.
  - Minimum server conditions: Intel Core i5, 4GB RAM, 500GB hard disk.
  - Client/ Server Connection: 500KB/s
- Usability
  - Effectiveness: Users who want to see the number of seats left must press Book -> number of seats left, instead of showing the remaining seats

- Efficiency: Minimize users' actions on the screen so that they complete a task on the system as quickly as possible.
- Error Tolerance: When users input personal's information which have 20 information field but having 3/20 information field is wrong and the system delete all 20 information field and force the user input again  
Instead, let check data on each field and alert the user
- Engagement: UI of the system is corresponding to user, let the user feel comfortable when using, increase user experience.
- Easy to learn: Consistency of screen forms makes the user feel comfortable, friendly, and easy to use.
- 4. User Interface
  - The data grids appearing on the system must have filter and sort functions.
  - The screen interface always has a default resolution of 1024×768 pixels.
  - The entire drop down list must be sorted in order of A to Z and ascending number
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- 5. Maintainability
  - When upgrading the system doesn't last 30 minutes
  - All the code must be written according to the coding convention consistency
- 6. Accessibility
  - The system supports voice search
  - The system helps users find movies more accurately