

# Cinema-Booking

**Supervisor:** *LÊ THANH NHÂN*

**Semester:** *II*

**Batch No:** *T1.2206.E1*

**Group No:** *2*

Order:	Full name	Roll No.
<i>1.</i>	<i>Lê Viết Đông</i>	<i>Student1390589</i>
<i>2.</i>	<i>Huỳnh Tấn Phước</i>	<i>Student1387826</i>
<i>3.</i>	<i>Nguyễn Nhật Minh</i>	<i>Student1390586</i>
<i>4.</i>	<i>Trần Thụ Huy</i>	<i>Student1387816</i>

*Month:3 Year:2023*

This is to certify that

**Mr.** \_\_\_\_\_ **Lê Viết Đông**

**Mr.** \_\_\_\_\_ **Huỳnh Tấn Phước**

**Mr.** \_\_\_\_\_ **Nguyễn Nhật Minh**

**Mr.** \_\_\_\_\_ **Trần Thụ Huy**

Have successfully Designed & Developed  
\_\_\_\_\_

## **Cinema-Booking**

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Submitted by:

**Mr. LE THANH NHAN**

\_\_\_\_\_

Date Of Issue:

\_\_\_\_\_

Authorized Signature:

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# Content

Content

Acknowledge

Synopsis

Review1 ..... (điền số trang theo thực tế)

Review2 ..... (điền số trang theo thực tế)

Review3 ..... (điền số trang theo thực tế)

Testting Document ..... (điền số trang theo thực tế)

Final Checklist ..... (điền số trang theo thực tế)

Tasksheet ..... (điền số trang theo thực tế)

# Acknowledge

We understand that the Project is a step-by-step learning environment that closely simulates a classroom and lab-based learning experience, bringing it to life in actual implementation. It's a project at your fingertips! An electronic, live junction on the machine that allows you to:

- ✓ Practice a ladder approach to step-by-step learning
- ✓ Build a larger, more robust application
- ✓ Use certain utilities in applications designed by the user
- ✓ Develop a single program into a unified code that leads to a complete application
- ✓ Learn the implementation of concepts in a phased manner
- ✓ Enhance skills and add value
- ✓ Work on real-life projects
- ✓ Provide a real-life scenario and help to create more complicated and useful applications
- ✓ Receive mentoring through email support

We'd like to express our heartfelt thanks to our professor, Mr. Le Thanh Nhan, and the other students for their invaluable support during the project. Despite the several mistakes we made, we hope to have more opportunities to broaden our knowledge in the web development world. We also thank you for sharing your information and the "demo" project from India APTECH, which helped us gain more practical experience in this project. With the experience gained from this project, we won't stop learning anything that can make us more successful in the future.

Sincerely yours,

Team Group 02.

# Synopsis

The objective of our program is to provide a desktop application for managing bookings, purchasing products, and data entry, specifically designed for use by counter employees and administrators. Our aim is to create a real-world scenario where we can apply our knowledge and skills, in order to build a larger, more robust application.

While the primary objective is not to teach us front-end or back-end technology, the project will provide an opportunity to work with various tools and gain practical experience. This project is meant for students like us who have completed the necessary coursework and have a foundational understanding of Java programming.

In order to complete the project successfully, we will work in a lab setting with the assistance of our faculty as needed. The application we develop will serve as a comprehensive solution for managing bookings, purchasing products, and data entry, tailored to meet the needs of our target users.

Through this project, we will learn how to apply the concepts we've studied in a real-world context, enhancing our skills and adding value to our educational experience. We will also gain experience working on a real-life project, which will help us in our future

# **Review 01**

<b>Design Plan:</b> Cinema-Booking	<b>Document Name:</b> Problem Definition	<b>SWD/Form</b> No.01/PD/Ver1.0
<b>Effective Date:</b> 21/3/2023	<b>Version</b> 1.0	<b>Page No:</b> 1 of 31

## Problem Definition

The current booking and product management process at our organization is manual and time-consuming, requiring significant effort from counter employees and administrators. There are several issues with the existing process, including:

- Lack of real-time information;
- Inefficiencies in the booking process;
- No centralized system for product management;
- Limited reporting and analysis capabilities.

To address these issues, we propose the development of a desktop application that will streamline the booking and product management process, providing a centralized database for storing information and automating many of the manual processes currently in place. The application will be designed to be user-friendly and intuitive, allowing counter employees and administrators to easily perform their duties and access relevant information. Additionally, the application will include reporting and analysis capabilities, providing valuable insights into the performance of the organization over time. Overall, this application will help our organization to operate more efficiently and effectively, improving the customer experience and increasing revenue.

	<b>Prepared by (Student)</b> Project Group No:2	<b>Approved by (Faculty)</b> LE THANH NHAN
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b> <b>Cinema-Booking</b>	<b>Document Name:</b> Customer Requirements Specifications	<b>SWD/Form No.02/CRS/Ver1.0</b>
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No: 2 of 31</b>

# Customer Requirements Specifications

## ➤ Admin:

- Input Data:
  - ✓ Employee
  - ✓ Actor, Film
  - ✓ Room, Seat and Price
  - ✓ Schedule
- Process:
  - ✓ Add / edit / delete all of input's information
  - ✓ Change account's information
  - ✓ Export report for working session of employee, statistical of Film, Product, Ticket
- Output:
  - ✓ Notification to add / edit / delete items success / failure
  - ✓ Excel file

## ➤ Employee:

- Input Data
  - ✓ Customer information
  - ✓ Order information of customer

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	<b>Project Group No:2</b>	LE THANH NHAN
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<b>Design Plan:</b> <b>Cinema-Booking</b>	<b>Document Name:</b> Customer Requirements Specifications	<b>SWD/Form</b> No.02/CRS/Ver1.0
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No:</b> 3 of 31

- Process
  - ✓ Customer registration information
  - ✓ Search the information of Film, Ticket, Customer, Product and then,

Booking for customer

- ✓ Manage order information
- Output
  - ✓ Notification of booking process
  - ✓ Bill for customer

## Hardware / software requirement

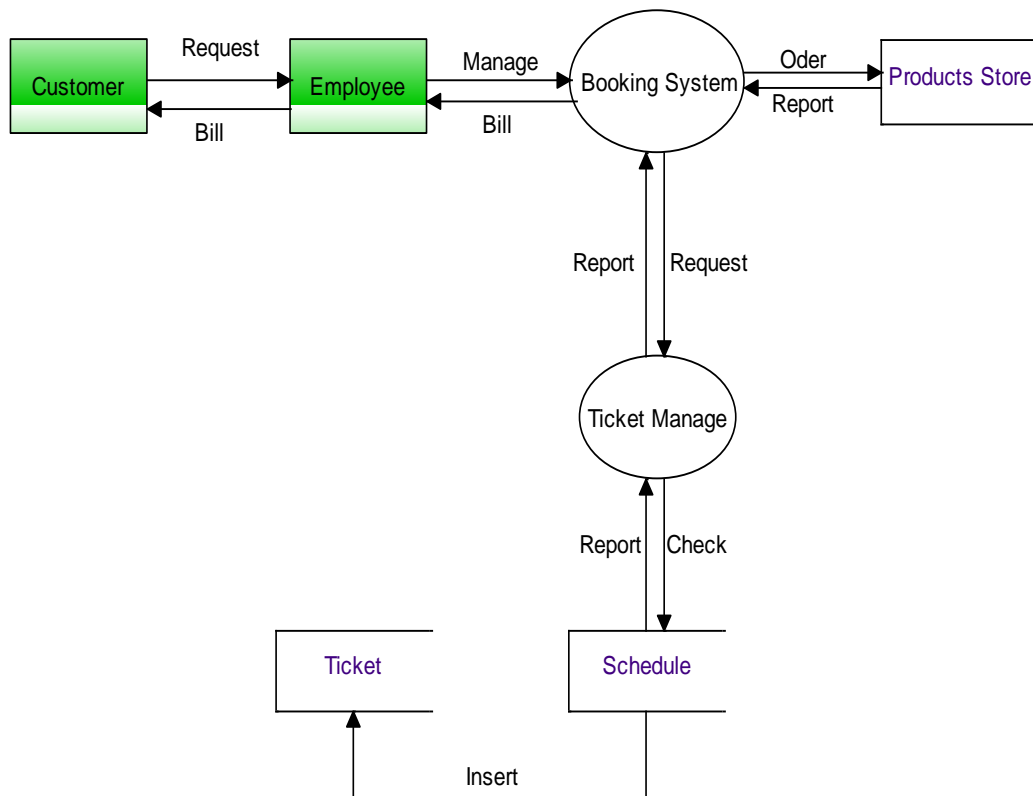
Sr.	Item	Description
1.	Operating system	Windows 7, 8, or higher
2.	Hardware	CPU Cores or better with 2 Gigabytes of RAM or better
3.	Fonts	Standard font Unicode: Arial, Tahoma, Lucida Console, Times New Roman, etc...

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	<b>Project Group No:2</b>	LE THANH NHAN
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## **Review 02**

<b>Design Plan:</b> Cinema-Booking	<b>Document Name:</b> Data Flow Diagram	<b>SWD/Form No.03/DFD/Ver1.0</b>
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No:</b> 5 of 31

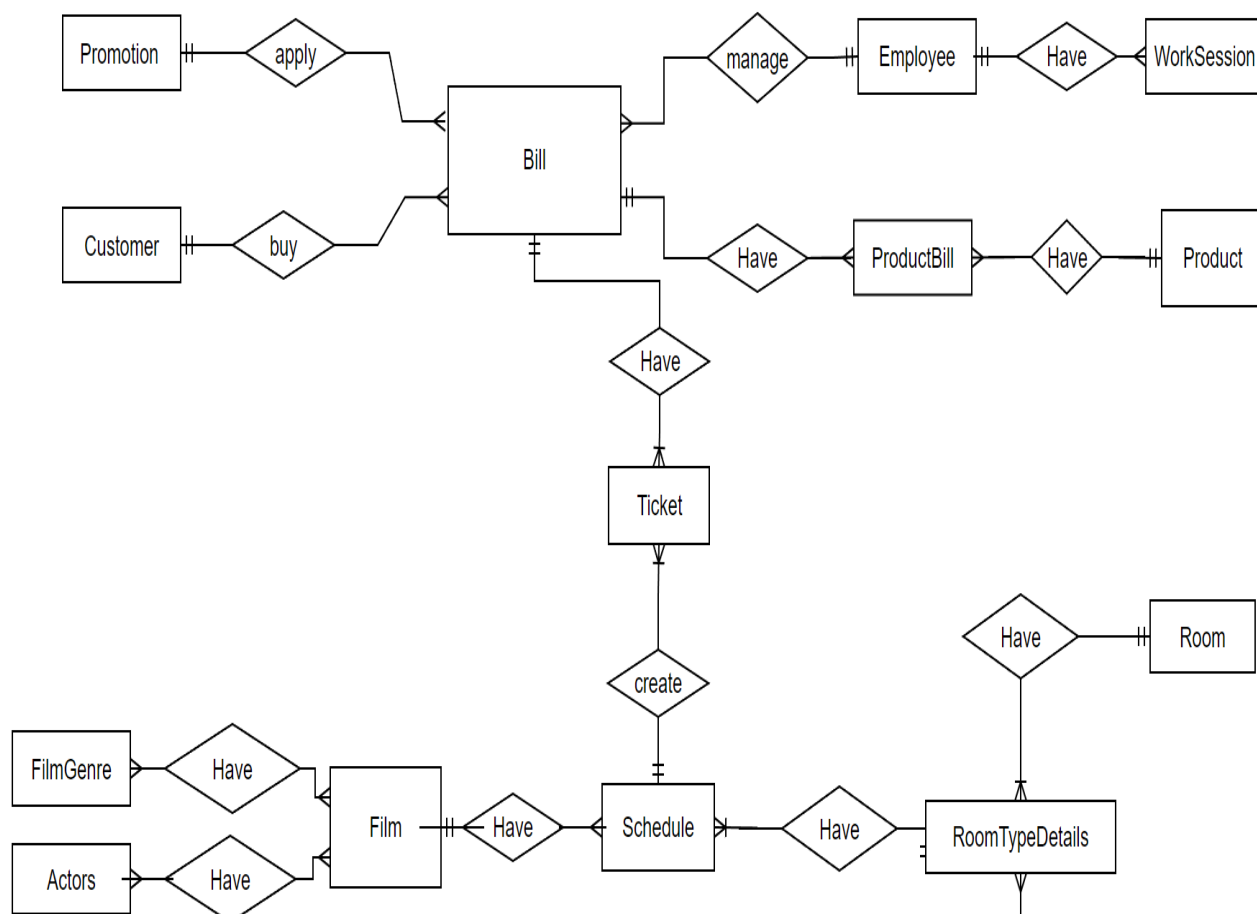
## Data Flow Diagram



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<b>Date</b>		

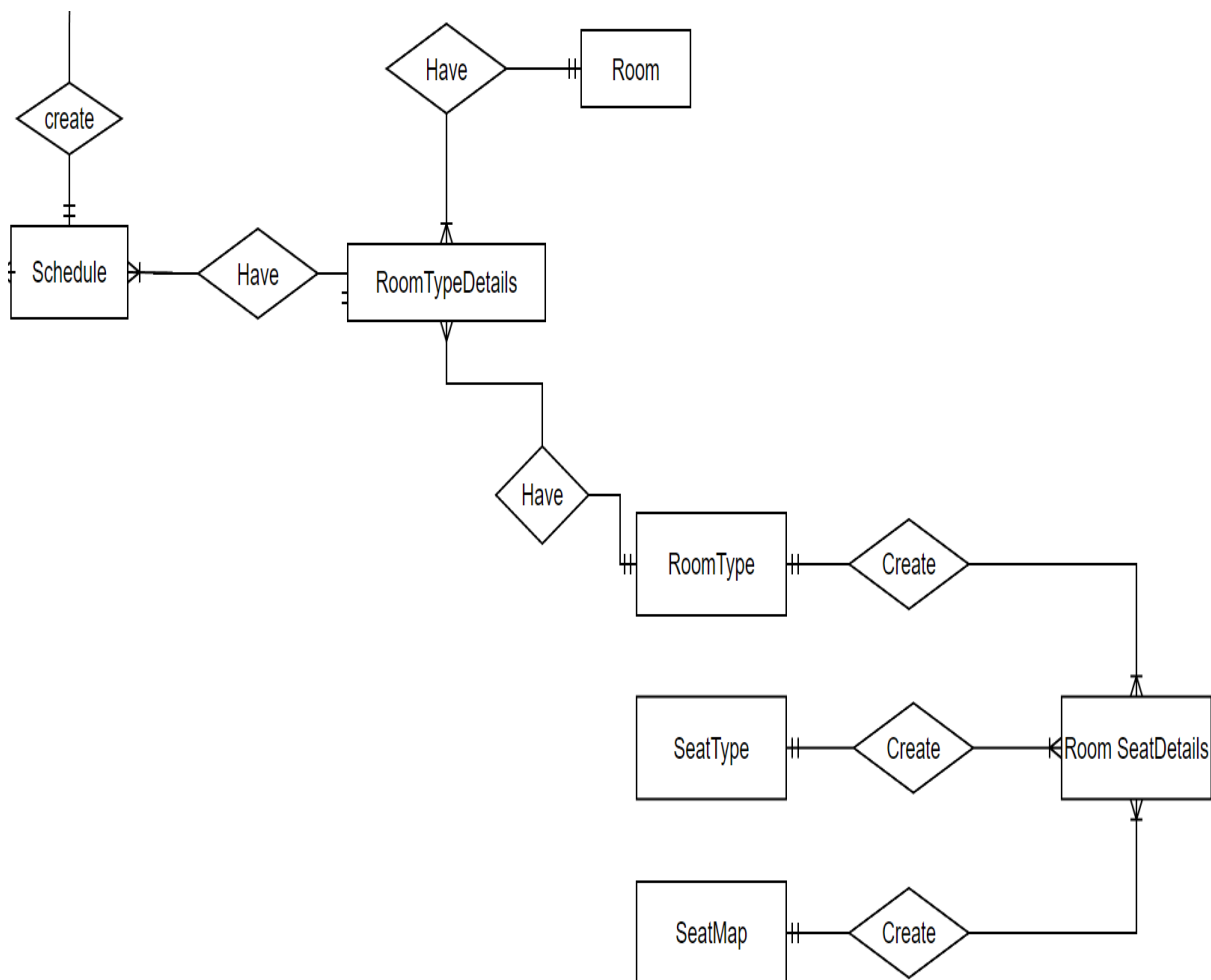
<b>Design Plan:</b> <b>Cinema-Booking</b>	<b>Document Name:</b> Entity Relationship Diagram	<b>SWD/Form No.04/ERD/Ver1.0</b>
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No:</b> 6 of 31

## A. Entity Relationship Diagram



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<b>Signature</b>		
<b>Date</b>		

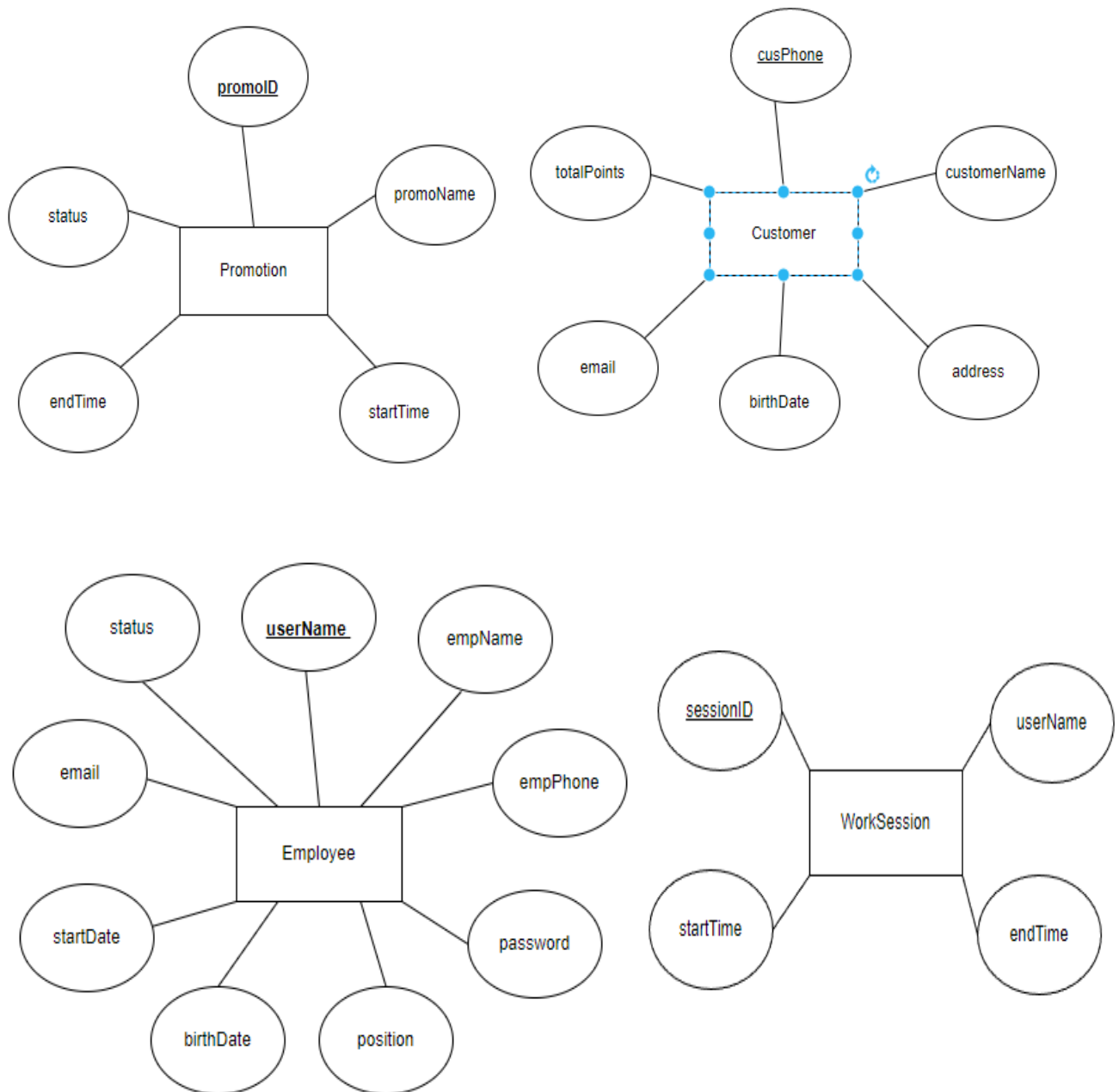
<b>Design Plan:</b> <b>Cinema-Booking</b>	<b>Document Name:</b> Entity Relationship Diagram	<b>SWD/Form No.04/ERD/Ver1.0</b>
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No: 7 of 31</b>



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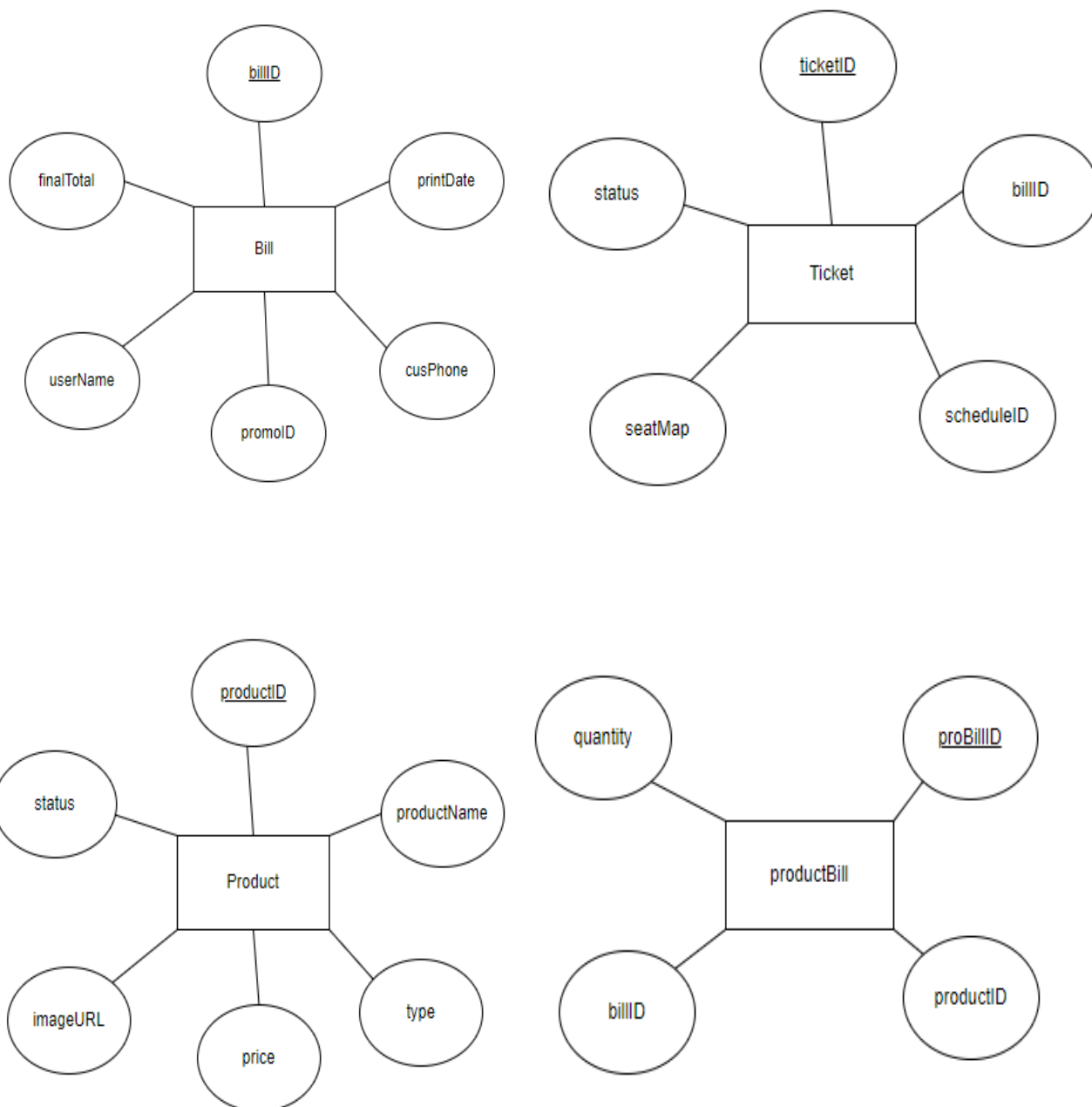
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<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No:</b> 8 of 31

## B. Entity Attributes



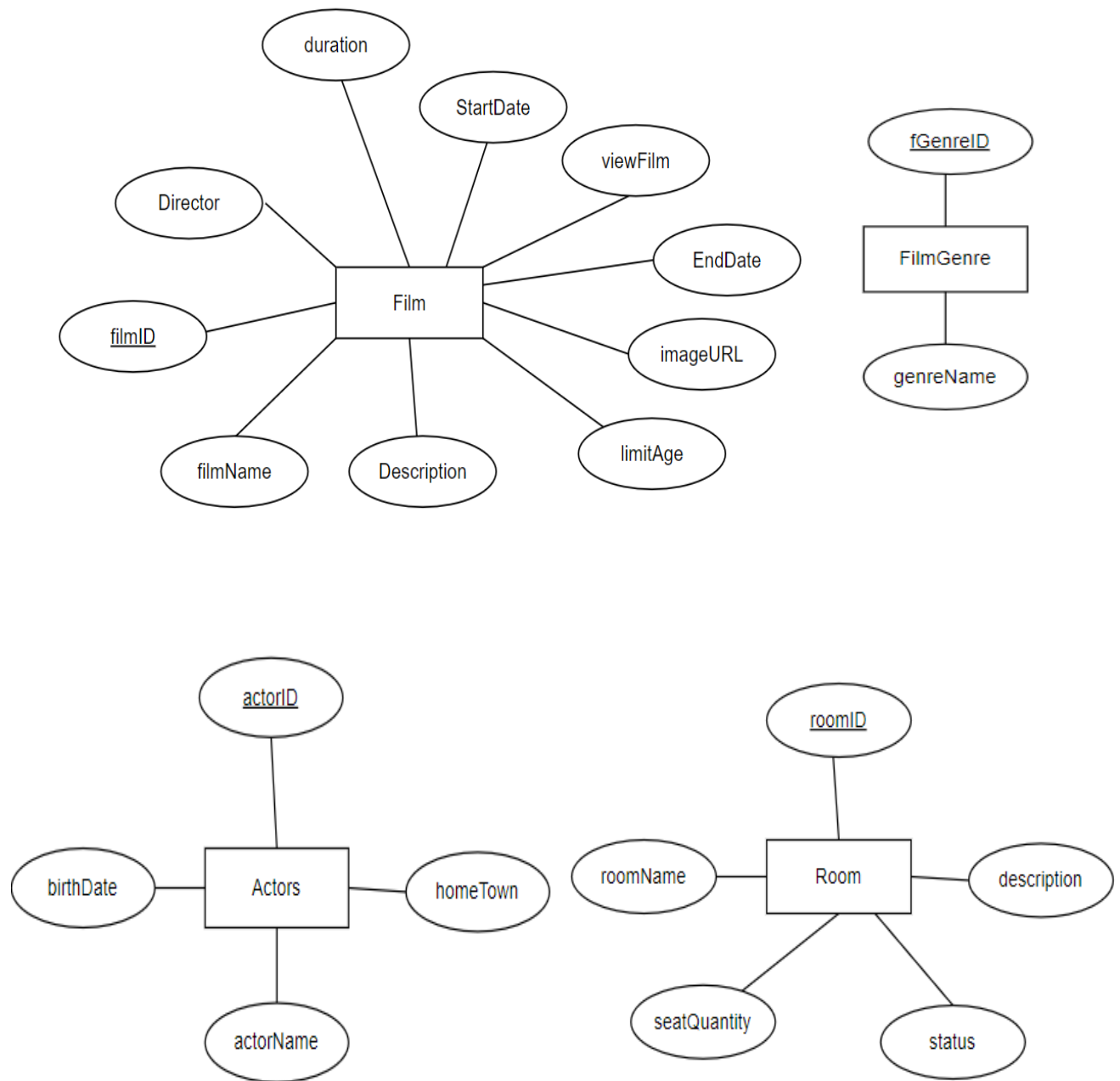
	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b>	LE THANH NHAN
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<b>Date</b>		

<b>Design Plan:</b> <b>Cinema-Booking</b>	<b>Document Name:</b> Entity Relationship Diagram	<b>SWD/Form No.04/ERD/Ver1.0</b>
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No: 9 of 31</b>



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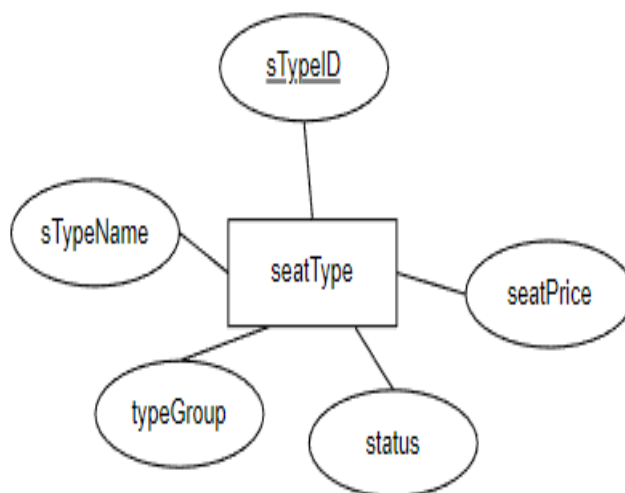
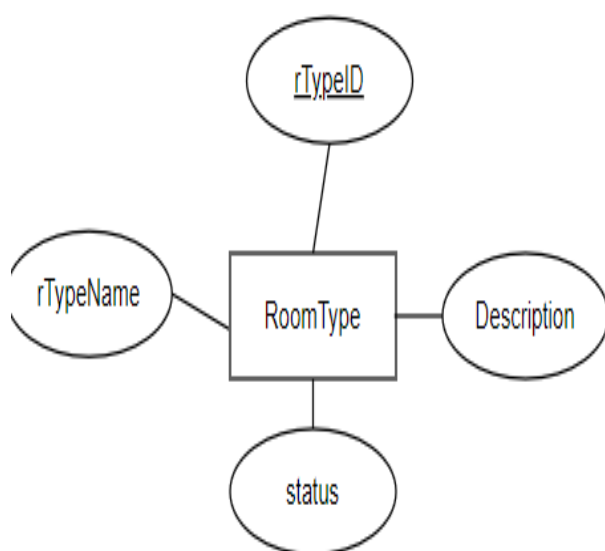
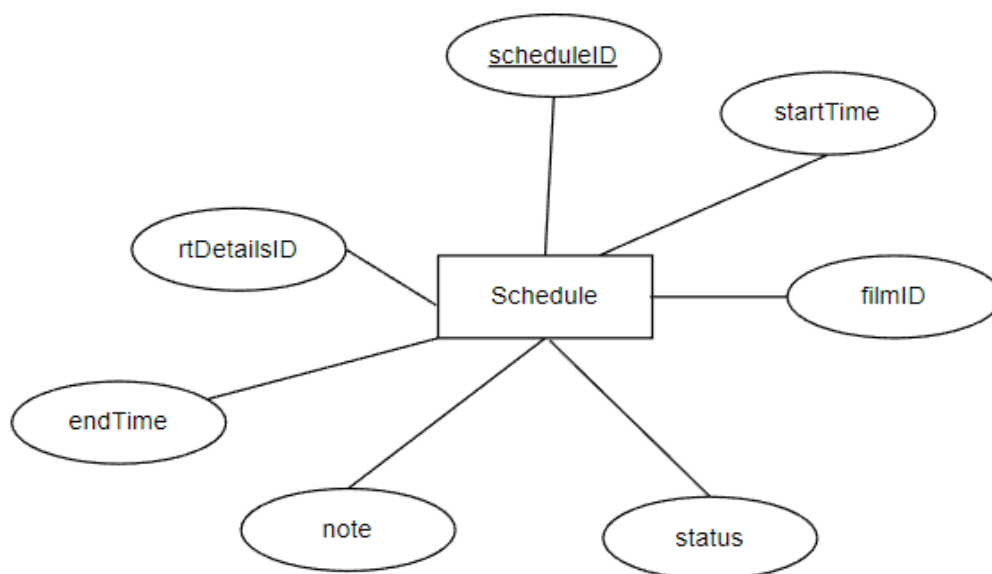
<b>Design Plan:</b> <b>Cinema-Booking</b>	<b>Document Name:</b> Entity Relationship Diagram	<b>SWD/Form No.04/ERD/Ver1.0</b>
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No: 10 of 31</b>



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	<b>Project Group No:</b>	LE THANH NHAN
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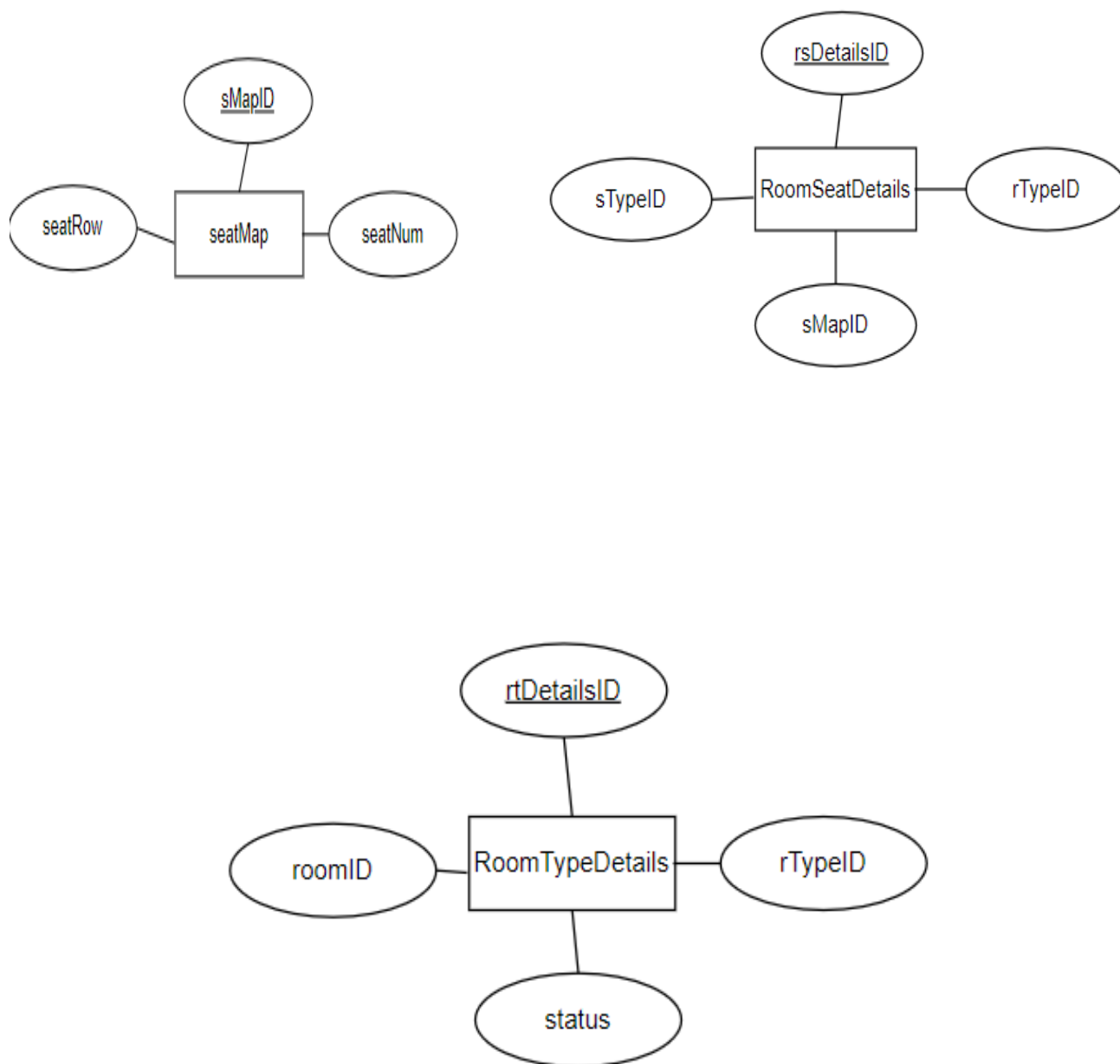


<b>Design Plan:</b> <b>Cinema-Booking</b>	<b>Document Name:</b> Entity Relationship Diagram	<b>SWD/Form No.04/ERD/Ver1.0</b>
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No: 11 of 31</b>



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	<b>Project Group No:</b>	LE THANH NHAN
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<b>Design Plan:</b> <b>Cinema-Booking</b>	<b>Document Name:</b> Entity Relationship Diagram	<b>SWD/Form No.04/ERD/Ver1.0</b>
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No: 12 of 31</b>



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<b>Design Plan:</b> Cinema-Booking	<b>Document Name:</b> Table Design	<b>SWD/Form No.05/TAB/Ver1.0</b>
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No: 13 of 31</b>

## A. Table Design

Promotion					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>promoID</u>	int	Primary key	not null	A unique code assigned to each promotion in the table.
2	promoName	varchar()		null	The name of the promotion (optional).
3	startTime	datetime		null	The start time of the promotion.
4	endTime	datetime		null	The end time of the promotion.
5	status	bit		null	The status of the promotion (optional).

Customer					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>cusPhone</u>	varchar()	Primary key	not null	The customer's phone number.
2	customerName	varchar()		not null	The name of the customer.
3	address	varchar()			The customer's address.
4	birthDate	date			The customer's birth date.
5	email	varchar()			The customer's email address.
6	totalPoints	int			The total number of loyalty points accumulated by the customer.

Bill					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>billID</u>	int	Primary key	not null	A unique code assigned to each bill in the table.
2	printDate	datetime			The date on which the bill was printed.
3	cusPhone	varchar()	Foreign key		The customer's phone number.
4	promoID	int	Foreign key		The unique code of the promotion applied to the bill (optional).
5	userName	varchar()	Foreign key		The name of the user who printed the bill.
6	exchangePoints	float			The final total amount to be paid after any discounts or promotions are applied.

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<b>Design Plan:</b> Cinema-Booking	<b>Document Name:</b> Table Design	<b>SWD/Form</b> No.05/TAB/Ver1.0
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No:</b> 14 of 31

<b>Employee</b>					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>userName</u>	varchar()	Primary key	not null	The username used by the employee to log in.
2	empName	varchar()		not null	The name of the employee.
3	empPhone	varchar()			The phone number of the employee.
4	password	varchar()		not null	The password used by the employee to log in
5	position	varchar()		not null	The job position of the employee.
6	birthDate	date			The birth date of the employee.
7	startDate	date			The start date of the employee's employment.
8	email	varchar()			The email address of the employee.
9	status	bit			The status of the employee, such as "active" or "inactive".

<b>WorkSession</b>					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>sessionID</u>	varchar()	Primary key	not null	A unique code assigned to each session in the table.
2	userName	varchar()	Foreign key		The username of the user who started the session.
3	startTime	date			The start time of the session.
4	endTime	date			The end time of the session.

<b>productBill</b>					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>proBillID</u>	varchar()	Primary key	not null	A unique code assigned to each product in the bill.
2	productID	varchar()	Foreign key		The ID of the product.
3	billID	int	Foreign key		The ID of the bill to which the product belongs.
4	quantity	int			The quantity of the product purchased.

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<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No:</b> 15 of 31

Product					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>productID</u>	varchar()	Primary key	not null	The unique ID assigned to each product in the table.
2	productName	varchar()		not null	The name of the product.
3	type	varchar()			The category or type of the product.
4	price	decimal			The price of the product.
5	status	bit			The status of the product, such as "available" or "out of stock".

Ticket					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>ticketID</u>	int	Primary key	(identity), n.null	A unique code assigned to each ticket in the table.
2	billID	int	Foreign key		The ID of the bill for which the ticket was purchased.
3	scheduleID	varchar()	Foreign key		The ID of the schedule for which the ticket was purchased.
4	seatMap	varchar()			The seat number and location of the ticket
5	status	bit			The status of the ticket, such as "booked" or "canceled".

SeatType					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>sTypeID</u>	varchar()	Primary key	not null	The unique ID assigned to each seat type in the table.
2	sTypeName	varchar()			The name of the seat type, such as "VIP" or "Standard".
3	typeGroup	varchar()			The group to which the seat type belongs.
4	seatPrice	int			The price of the seat type.
5	staus	bit			The status of the seat type, such as "active" or "inactive".

SeatMap					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>sMapID</u>	varchar()	Primary key	not null	The unique ID assigned to each seat in the seat map table.
2	seatRow	varchar()			The row number of the seat.
3	seatNum	int			The seat number within the row.

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<b>Date</b>		

<b>Design Plan:</b> Cinema-Booking	<b>Document Name:</b> Table Design	<b>SWD/Form</b> No.05/TAB/Ver1.0
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No:</b> 16 of 31

RoomSeatDetails					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>rsDetailsID</u>	varchar()	Primary key	not null	The unique ID assigned to each reservation detail in the table.
2	rTypeID	varchar()	Foreign key		The ID of the reservation type to which the detail belongs.
3	sTypeID	varchar()	Foreign key		The ID of the seat type reserved.
4	sMapID	varchar()	Foreign key		The ID of the seat in the seat map reserved.

Film					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>filmID</u>	varchar(10)	Primary Key	Not null	Film Identification
2	limitAge	int		Not null	Limit Age
3	startDate	date		Not null	Film's start date
4	endDate	date		Not null	Film's End Date
5	duration	int		not null	Film' duration
6	description	varchar(255)		null	Film's description
7	imageURL	varchar(255)		not null	Film's Image
8	director	varchar(50)		null	Film's director
9	viewFilm	int		null	Film's view
10	filmName	varchar(100)		Not null	Film's Name

Actors					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>actorID</u>	int	Primary Key	Not null, identity	Actors's Identification
2	actorName	varchar(100)		Not null	Actors's Name
3	birthDate	date		null	Actors's birthday
4	homeTown	varchar(100)		null	Actors's home town

FilmGenre					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>fGenreID</u>	int	Primary Key	Not null, identity	Film Genre's Identification
2	fGenreName	varchar(100)		Not null	Film Genre's Name

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<b>Design Plan:</b> Cinema-Booking	<b>Document Name:</b> Table Design	<b>SWD/Form No.05/TAB/Ver1.0</b>
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No: 17 of 31</b>

Schedule					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>scheduleID</u>	varchar(20)	Primary Key	Not null	Schedule's Identification
2	filmID	varchar(10)	Foreign Key	Not null	Film's Identification
3	rtDetailsID	int	Foreign Key	Not null	Room Type Details's Identification
4	startTime	datetime			Start Time of Film
5	endTime	datetime			End Time of Film
6	note	varchar(255)		null	Schedule's note
7	status	bit		not null	Schedule's status

Room					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>roomID</u>	varchar(10)	Primary Key	Not null	Room's Identification
2	roomName	varchar(100)		Not null	Room's Identification
3	seatQuantity	int		null	Quantity of Seat
4	description	varchar(100)		null	Room's description
5	status	bit		not null	Room's status

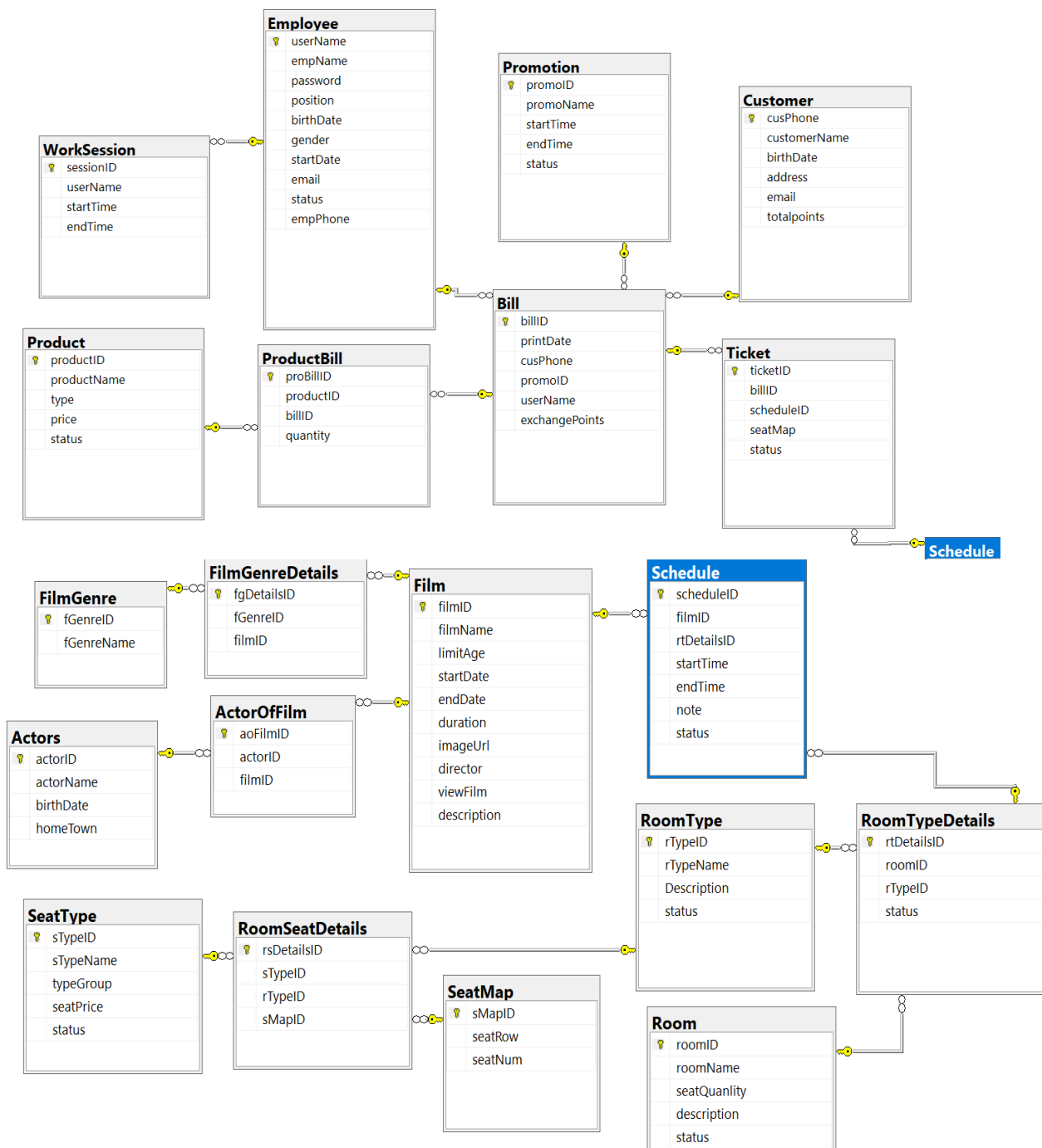
Room Type					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>rTypeID</u>	varchar(10)	Primary Key	not null	ID's Room Type
2	rTypeName	varchar(100)		not null	Name's Room Type
3	description	varchar			Description's Room Type
4	status	bit		null	status's Room Type

RoomTypeDetails					
STT	Column Name	Data type	Keys	Constraints	Description
1	<u>rtDetailsID</u>	int	Primary Key	not null	ID's Room Type Details
2	roomID	varchar(10)	Foreign Key	null	ID's Room
3	rTypeID	varchar(10)	Foreign Key	null	ID's Room Type
4	status	bit		null	status's Room Type Details

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
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<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No:</b> 18 of 31

## B. Relationship Diagram

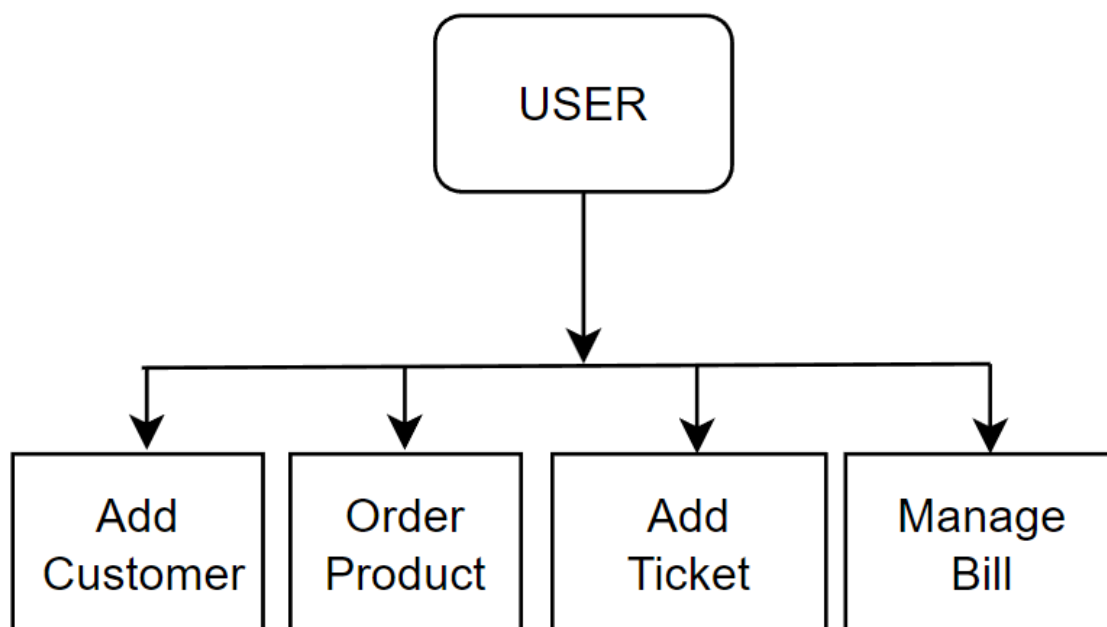
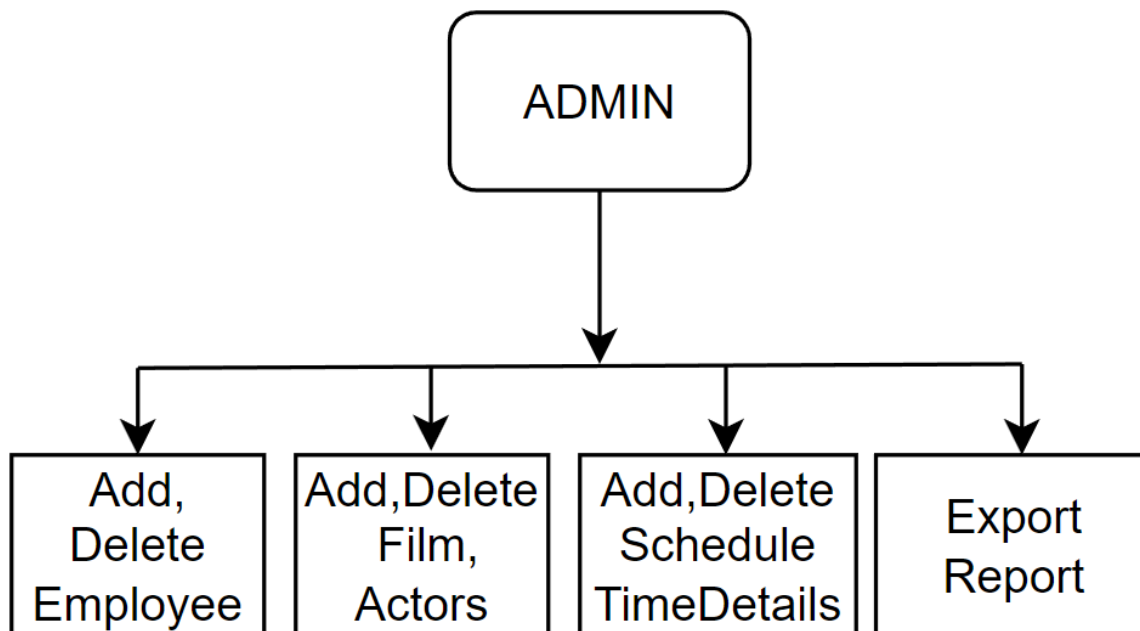


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<b>Design Plan:</b> Cinema-Booking	<b>Document Name:</b> Algorithm	<b>SWD/Form</b> No.07/ALG/Ver1.0
<b>Effective Date:</b> 3/21/2023	<b>Version</b> 1.0	<b>Page No:</b> 19 of 31

## Algorithm



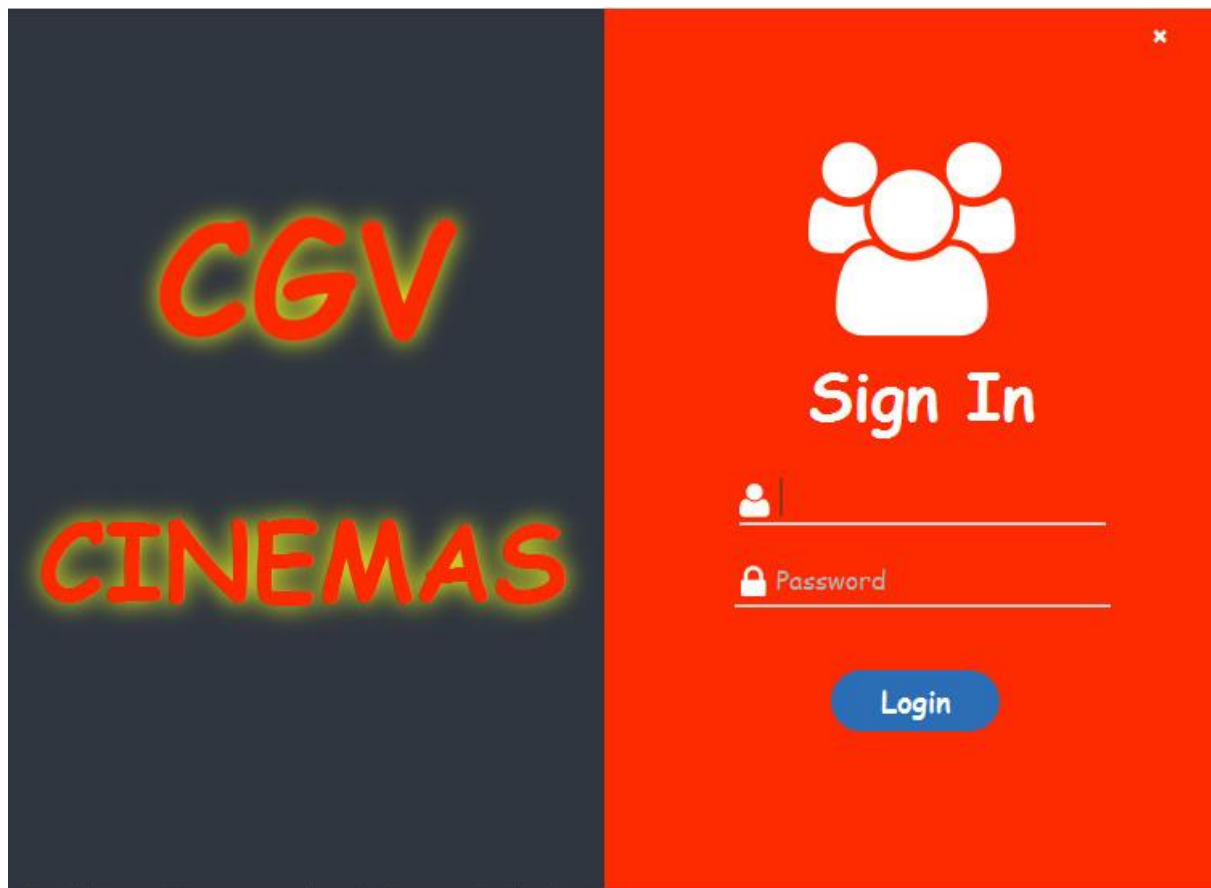
	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b>	LE THANH NHAN
<b>Signature</b>		
<b>Date</b>		

## **Review 03**

<b>Design Plan:</b>	<b>Document Name:</b> Screen shots	<b>SWD/Form No.08/SS/Ver1.0</b>
<b>Effective Date:</b>	<b>Version 1.0</b>	<b>Page No: 21 of 31</b>

## Screen shots

### I. Login:



**Description** : Form Login

**From** : Start with Application

**To** : Homepage

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b>	LE THANH NHAN
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b>	<b>Document Name:</b> Screen shots	<b>SWD/Form No.08/SS/Ver1.0</b>
<b>Effective Date:</b>	<b>Version 1.0</b>	<b>Page No: 22 of 31</b>

## II. HomePage

Index	ID	Image	Name	Genre	Director	Actors	Duration	Start Date	End Date	Age	View	Description	Edit	Delete	Schedule
1	Pm774841700		mu	Sci-fi Romance Thriller	Huy	Scarlett Ingrid Johansson Sigourney Weaver Zoe Saldana	180	2023-04-01	2023-04-11	18	0	dfsdfsdfsdfsdfs...	Edit	Delete	New Schedule
2	PP7655231300		PM 744	Action Animated Comedy Thriller	80	Scarlett Ingrid Johansson Christopher Hemsworth Sam Worthington Jeremy Renner Robert Downey Jr	180	2023-04-01	2023-04-15	18	0	day la mot bo ph...	Edit	Delete	New Schedule
3	PTA2186458200		The Avengers 2	Adventure Action Thriller	Joss Whed...	Scarlett Ingrid Johansson Christopher Hemsworth Jeremy Renner Chris Evans Robert Downey Jr	150	2023-03-26	2023-04-05	13	0	When Tony Star...	Edit	Delete	New Schedule
4	PTA824318200		The Avengers	Adventure Action Thriller	Joss Whed...	Scarlett Ingrid Johansson Christopher Hemsworth Sam Worthington Jeremy Renner Chris Evans Robert Downey Jr	120	2023-03-31	2023-04-22	13	0	Earth's mightiest...	Edit	Delete	New Schedule

**Description** : HomePage for Admin

**From** : Form Login

**To** : Form New Schedule, Edit Film, Delete Film

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b>	LE THANH NHAN
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<b>Date</b>		

<b>Design Plan:</b>	<b>Document Name:</b> Testing document	<b>SWD/Form</b> No.09/TD/Ver1.0
<b>Effective Date:</b>	<b>Version</b> 1.0	<b>Page No:</b> 23 of 31

# Testing document

Sr.No	Features Tested	Remarks
1		
2		
3		
4		
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10		
11		
12		
13		
14		
15		

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b>	LE THANH NHAN
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b>	<b>Document Name:</b> Final checklist	<b>SWD/Form No.10/FC/Ver1.0</b>
<b>Effective Date:</b>	<b>Version 1.0</b>	<b>Page No: 24 of 31</b>

## Final checklist

<b>Sr.No</b>	<b>Aspected Tested</b>	<b>Suggestion/ Remarks</b>
1	Are all the users able to view the images and links?	
2	Have all the views, modules and controllers been properly integrated and is the site function as a single page application?	
3	Are the GUI content devoid of spelling mistakes?	
4	Is the application user-friendly?	
5	Is the Website launching correctly in all popular browsers?	
6	Are all the forms validated with proper criteria?	
7	Do all text links lead to the appropriate website?	
8	Do all image links lead to the appropriate website?	
9	Are all the images and links clearly visible on the page?	
10	Does the Web page work properly in all the tested browsers?	
11	Does the Web page take too long to be loaded fully?	
12	Is the navigation sequences correct through all the Web pages on the site?	
13	Is the JavaScript code working as expected in all click events?	
	(Sinh viên ghi thêm...)	

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b>	LE THANH NHAN
<b>Signature</b>		
<b>Date</b>		

<b>Design Plan:</b>	<b>Document Name:</b> Task Sheet	<b>SWD/Form</b> No.11/TS/Ver1.0
<b>Effective Date:</b>	<b>Version</b> 1.0	<b>Page No:</b> 25 of 31

No	Member	Contents		Table Name	Activity Plan	Date of Preparation of Activity Plan		
					Planned Start Date	Actual Start Date	Actual Days	Status
1	Lê Viết Đông	Admin	Form for input: Schedule	Ticket, Schedule, ProductBill	3/21/2023	3/21/2023	5	OK
			Manage Ticket, and order product and export report by Excel		3/21/2023	3/21/2023	5	OK
		User	note: Ticket table is empty and insert auto when choose Ticket on user interface		3/21/2023	3/21/2023	5	OK
					3/21/2023	3/21/2023	5	OK
2	Huỳnh Tấn Phước	Admin	Form for input: Employee	Employee, WorkingSession,	3/21/2023	3/21/2023	5	OK
					3/21/2023	3/21/2023	5	OK
					3/21/2023	3/21/2023	5	OK
		User	Manage login process Manage Personal Account Manage working session and export report by Excel		3/21/2023	3/21/2023	5	OK
3	Nguyễn Nhật Minh	Admin	Form for input: Customer	Customer, Bill	3/21/2023	3/21/2023	5	OK
					3/21/2023	3/21/2023	5	OK
		User	Manage Bill and export Bill		3/21/2023	3/21/2023	5	OK
					3/21/2023	3/21/2023	5	OK
4	Trần Thụ Huy	Admin	Form for input: Film, Schedule, Actor	Film, Actor. FilmGenreDetails, ActorOfFilm	3/21/2023	3/21/2023	5	OK
					3/21/2023	3/21/2023	5	OK
		User	Export report for Film by Excel		3/21/2023	3/21/2023	5	OK
					3/21/2023	3/21/2023	5	OK

	<b>Prepared by (Student)</b>	<b>Approved by (Faculty)</b>
	<b>Project Group No:</b>	LE THANH NHAN
<b>Signature</b>		
<b>Date</b>		