

Asterism Cinema



Group 10

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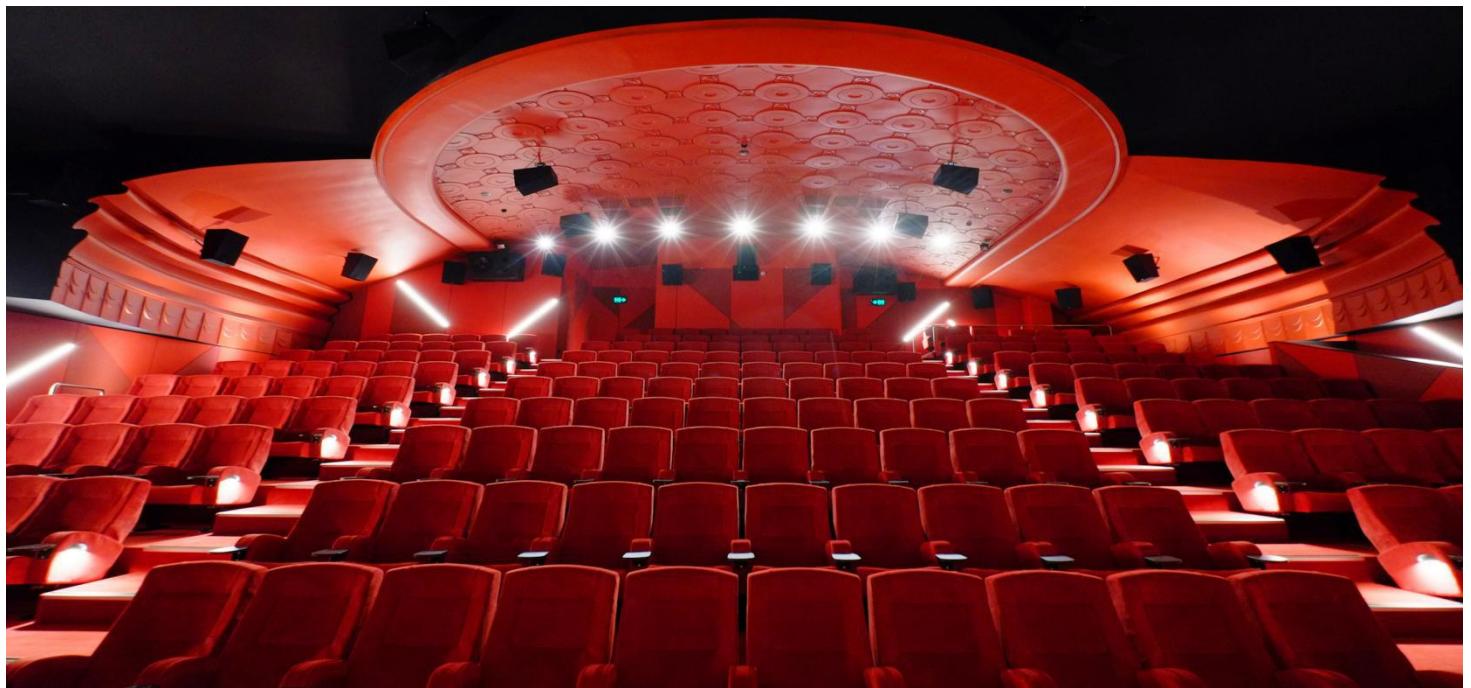
Mentor: Lương Hoàng Hướng

Table of Contents

I. Problem Definition.....	4
II. User Requirement.....	5
1. Input.....	5
2. Output.....	5
3. List of Function.....	5
III. Hardware and Software Requirement.....	6
1. System requirement.....	6
2. Required Software.....	7
IV. JSP.....	9
1. What is JSP?.....	9
2. Advantages of JSP over other Technologies.....	9
V. MVC.....	11
1. What is MVC?.....	11
2. The advantages of MVC.....	11
VI. Java Spring.....	13
1. What is Java Spring?.....	13
2. The advantages of Java Spring.....	13
VII. Detail.....	14
1. Date of project plan.....	14
2. Project's Vision/Objective.....	14
3. Project Initiation/Requirement Document.....	14
4. Plan.....	14
VIII. Roles.....	17
1. Table roles.....	17
2. Gantt.....	18
IX. Schedule	19
X. Design Pattern.....	20
1. Data base Diagram.....	20
2. Class Diagram.....	21
3. Sequence diagram.....	22
4. Usecase diagram	23

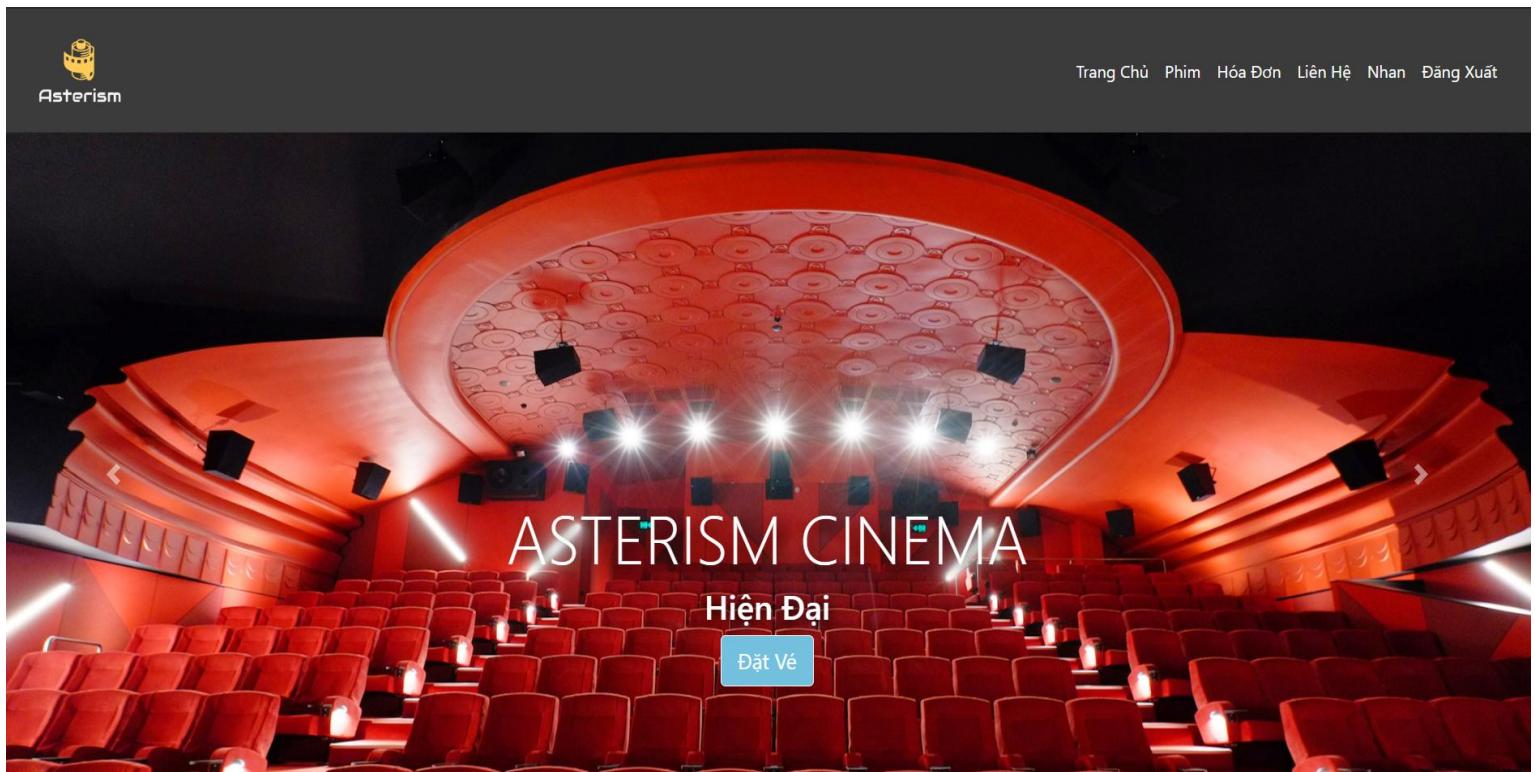
XI. Program Interface.....	24
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Link website: <http://bktcnm.j.layershift.co.uk/>



I. Problem Definition

Nowadays, the ongoing development of technology affects human life so much. It is not only changing the thinking, behavior, but also people demand. Specifically, the Internet provides a series of useful utilities for accessing, searching, entertaining and so on... that is reason why we are being attracted by social medias and waste a lot of time. The plenty of company found the above problems, so the development of each business would be parallel with the development of their websites. In this project we are going to develope a website for selling cinema tickets with Java web application foundation. In this website we are trying to design interfaces that attractted user and ensure website information of customer is secure.



II. User Requirement

1. Input

- A movie ticket website, for users to display movie listings, movie showtimes, select seats, sign in to buy tickets and see the bill.
- For admin, there are features such as adding movie, adding showtimes, changing user status, redirecting to an admin's own page when logging in.

2. Output

- When a user makes a reservation all seat information and a reservation are saved and the database.
- When the admin adds a movie, all movie information will be stored in the database and displayed on the website

3. List of Function

✧ User

- Login and register for the user
- See movie information
- See movie showtimes
- Choose a seat to book a ticket
- Fill in the information to pay for tickets
- show bill
- show bill list

✧ Admin

- Log in for the admin
- See user list
- Change user permissions
- change user status
- Updated movie information

III. Hardware and Software Requirement

1. System requirement

Minimum Hardware Configurations

Microsoft Windows Vista SP1/Windows 7 Professional:

Processor: 800MHz Intel Pentium III or equivalent
Memory: 512 MB
Disk space: 750 MB of free disk space

Ubuntu 9.10:

Processor: 800MHz Intel Pentium III or equivalent
Memory: 512 MB
Disk space: 650 MB of free disk space

Macintosh OS X 10.7 Intel:

Processor: Dual-Core Intel
Memory: 2 GB
Disk space: 650 MB of free disk space

Recommended Hardware Configurations

Microsoft Windows 7 Professional/Windows 8/Windows 8.2:

Processor: Intel Core i5 or equivalent

Memory: 2 GB (32-bit), 4 GB (64-bit)

Disk space: 1.5 GB of free disk space

Ubuntu 15.04:

Processor: Intel Core i5 or equivalent

Memory: 2 GB (32-bit), 4 GB (64-bit)

Disk space: 1.5 GB of free disk space

OS X 10.10 Intel:

Processor: Dual-Core Intel

Memory: 4 GB

Disk space: 1.5 GB of free disk space

2. Required Software

- NetBeans IDE runs on the Java SE Development Kit (JDK) which consists of the Java Runtime Environment and developer tools for compiling, debugging, and running applications written in the Java language.
- The tested JDK for this release is JDK 8u101 for Windows, Linux, and OS X. The 8.2 version of the IDE cannot be installed or run on the JDK older than JDK 8.
- Note:



- The PHP and C/C++ NetBeans bundles only require the Java Runtime Environment (JRE) 8 to be installed and run.
- Java features in the IDE and JavaFX 8 features require JDK 8.
- Download Tomcat for webserver, XAMPP for database.

IV. JSP

1. What is JSP?

- ✓ JavaServer Pages (JSP) is a Java standard technology that enables you to write dynamic, data-driven pages for your Java web applications. JSP is built on top of the Java Servlet specification. The two technologies typically work together, especially in older Java web applications. From a coding perspective, the most obvious difference between them is that with servlets you write Java code and then embed client-side markup (like HTML) into that code, whereas with JSP you start with the client-side script or markup, then embed JSP tags to connect your page to the Java backend.
- ✓ JSP is also closely related to JSF (JavaServer Faces), a Java specification for building MVC (model-view-controller) web applications. JSP is a relatively simpler and older technology than JSF, which is the standard for Java web frameworks like Eclipse Mojarra, MyFaces, and PrimeFaces. While it is not uncommon to see JSP used as the frontend for older JSF applications, Facelets is the preferred view technology for modern JSF implementations.
- ✓ While JSP may not be your first choice for building dynamic web pages, it is a core Java web technology. JSP pages are relatively quick and easy to build, and they interact seamlessly with Java servlets in a servlet container like Tomcat. You will encounter JSP in older Java web applications, and from time to time you may find it useful for building simple, dynamic Java web pages. As a Java developer, you should at least be familiar with JSP.

2. Advantages of JSP over other Technologies

- ✓ Active Server Pages (ASP) : ASP is a Microsoft technology. The dynamic part of JSP is written in Java, so it is more powerful and easier to use. Secondly, JSP is platform independent whereas ASP is not.
- ✓ Pure Servlets : It is more convenient to write regular HTML than to have println statements that generate HTML. Allows separation of look from the content. In a JSP web designer can design web page separately and servlet programmers can insert the dynamic content separately.
- ✓ Server-Side Includes (SSI) : SSI is widely supported technology for including externally defined pieces into a static web page. JSP is better

because it lets you use servlets instead of a separate program to generate that dynamic part. Besides, SSI is really only intended for simple inclusions, not for real programs that use form data, make database connection.

- ✓ JavaScript : JavaScript can generate HTML dynamically on the client. However, it can only access client environment. JavaScript can't access server-side resources like databases, catalogs, pricing information etc.
- ✓ Static HTML : Regular HTML cannot contain dynamic information. JSP is easy and convenient. It is quite feasible to insert small amounts of dynamic data.

V. MVC

1. What is MVC?

- ✓ Stands for "Model-View-Controller." MVC is an application design model comprised of three interconnected parts. They include the model (data), the view (user interface), and the controller (processes that handle input).
- ✓ The MVC model or "pattern" is commonly used for developing modern user interfaces. It provides the fundamental pieces for designing programs for desktop or mobile, as well as web applications. It works well with object-oriented programming, since the different models, views, and controllers can be treated as objects and reused within an application.
- ✓ Below is a description of each aspect of MVC:

➤ Model:

A model is data used by a program. This may be a database, file, or a simple object, such as an icon or a character in a video game.

➤ View:

A view is the means of displaying objects within an application. Examples include displaying a window or buttons or text within a window. It includes anything that the user can see.

➤ Controller:

A controller updates both models and views. It accepts input and performs the corresponding update. For example, a controller can update a model by changing the attributes of a character in a video game. It may modify the view by displaying the updated character in the game.

2. The advantages of MVC

- ✓ A main advantage of MVC is separation of concern. Separation of concern means we divide the application Model, Control and View.
- ✓ We can easily maintain our application because of separation of concern.

- ✓ In the same time we can split many developers work at a time. It will not affects one developer work to another developer work.
- ✓ It supports TTD (test-driven development). We can create an application with unit test. We can write won test case.
- ✓ Latest version of MVC Support default responsive web site and mobile templates.
- ✓ We can create own view engine. Its syntax is very easy compare to traditional view engine.

VI. Java Spring

1. What is Java Spring?

- ✓ The Java Spring framework is very popular among developers because it offers them a lot of assistance with creating web apps, and, generally, it makes them more productive. With this in mind, let's consider the pros and cons of Spring framework as well as some mistakes. However, before we get into the details, let's get a brief refresher on what the Spring framework is all about.
- ✓ Spring is a Java Framework that makes it much simpler to create enterprise-grade applications. One of the biggest reasons for its popularity is that it supports a lot of scenarios. For example, large companies might have an app that has been around for quite some time now, and they need to run it on a server whose upgraded cycle is beyond the control of developers. Other businesses might have a standalone product that does not require a server. For all of these scenarios and many others, the Spring framework has you covered.

2. The advantages of Java Spring

- ✓ Plain Old Java Object – Developers call this POJO. The reason this is so beneficial is that it means developers do not have to use a server or any other enterprise container. This makes the entire framework extremely lightweight, which is a significant advantage when developing web applications.
- ✓ Flexible Configurations – Developers have the option to choose either XML or Java-based annotations for configuration purposes. Having such an option makes the jobs of developers a lot simpler.
- ✓ The AOP Module – Developers can have different compilation units or a separate class loader.
- ✓ Testing is Easier – The Spring Dependency injection helps developers insert test data.

VII. Detail

1. Date of project plan

- Start: 01/06/2020
- Finish: 23/07/2020

2. Project's Vision/Objective

- Create a website for the Asterism Cinema, on the site will show the films of the currently playing theater, and soon.
- The movie will automatically delete from the show date without a schedule.
- Users can view movie information, movie showtimes and book tickets. To make a reservation, a login is required, when the ticket is displayed, all seats selected must be colored so that the user is aware and cannot choose. After choosing a chair, go to the payment information page, after payment the data will be updated into the database and the selected seat will switch to the purchased state for others to see.

3. Project Initiation/Requirement Document

The website has 2 different directions after logging in:

- For admin account:
 - There are features like viewing movie listings, updating movie information, adding movie showtimes, adding movies.
 - See the list of all ordered invoices.
 - View user list, toggle user status.
- For customer account:
 - View the list of currently playing movies, movie details, movie showtimes for a week, select tickets, book tickets and display the bill.

4. Plan

	Phạm Quốc Nghị	Lê Thành Nhân	Hứa Thiên Ngân	Nguyễn Quốc Toàn
Design wireframe				✓
Design Logo			✓	
Add data		✓		
Create model			✓	✓
MVC config	✓			
Design user interface				✓
Code HomeController	✓	✓		
Code FilmController				✓
Code BillController			✓	
Code UserController		✓		
Code-view: Customer-header				✓
Code-view: Customer-footer			✓	
Code-view: Home page				✓
Code-view: ShowTime page	✓			
Code-view: Film Detail				✓
Code-view: Login page		✓		

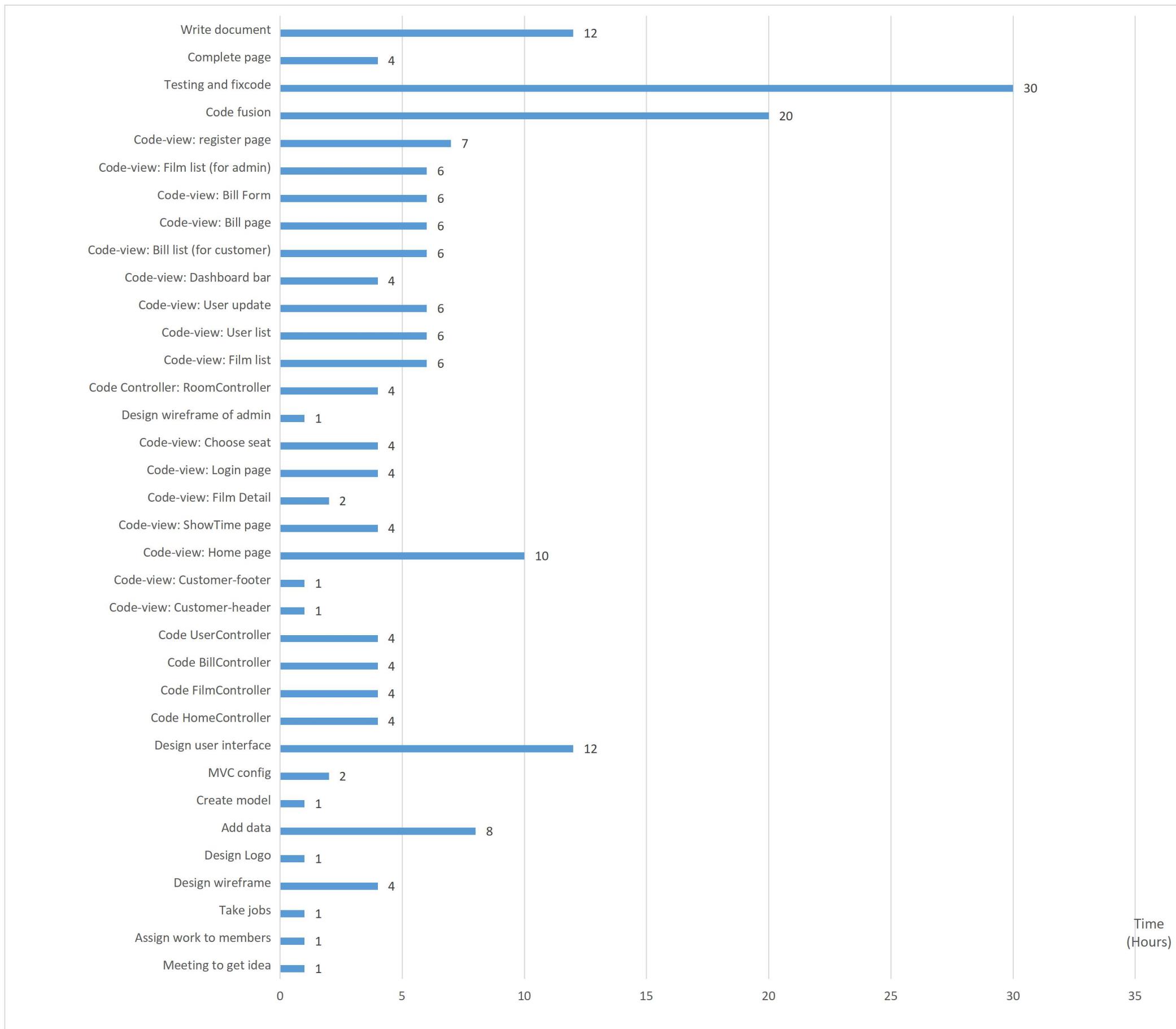
Code-view: Choose seat	✓			
Design wireframe of admin			✓	✓
Code Controller: RoomController	✓			
Code-view: Film list			✓	
Code-view: User list			✓	
Code-view: User update		✓		
Code-view: Dashboard bar			✓	
Code-view: Bill list (for customer)				✓
Code-view: Bill page				✓
Code-view: Bill Form				✓
Code-view: Film list (for admin)	✓			
Code-view: register page		✓		
Debug code	✓	✓		

VIII. Roles

1. Table roles

Member	Roles
Phạm Quốc Nghị	Leader, System Manager
Lê Thành Nhân	Back-end Developer
Hứa Thiên Ngân	Full-Stack Developer
Nguyễn Quốc Toàn	Full-Stack Developer

2. Gantt



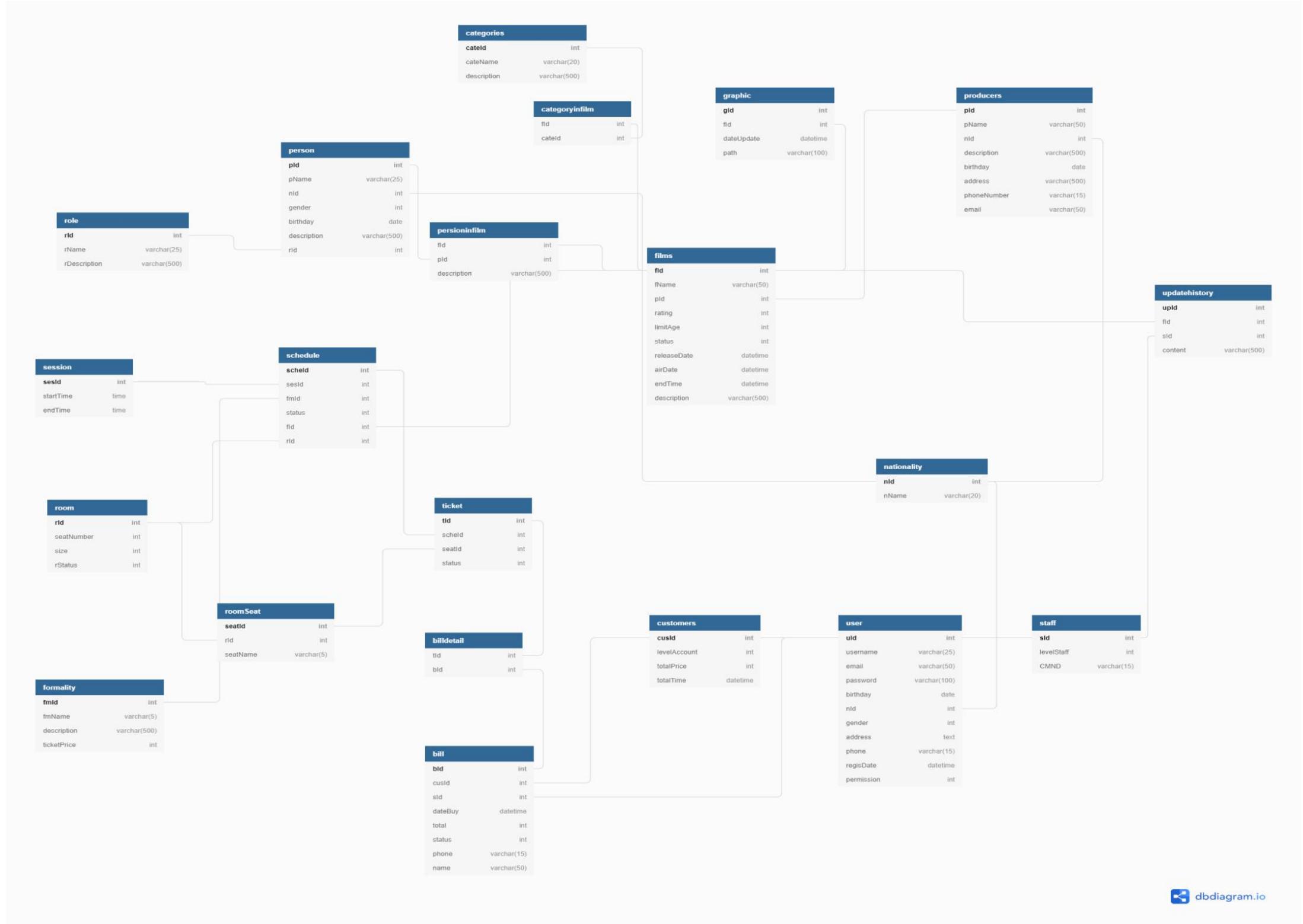
IX. Schedule

Lịch họp offline

<i>STT</i>	<i>Ngày họp</i>	<i>Thời gian họp</i>	<i>Mục đích cuộc họp</i>	<i>Các thành viên tham gia</i>	<i>Hình Thức họp</i>
1	23/06/2020	14:00	Xác định dự án và phân chia nhiệm vụ	Full	Offline
2	06/07/2020	14:00	Báo cáo tiến độ và Kiểm tra sản phẩm	Full	Offline
3	11/07/2020	14:00	Báo cáo tiến độ và Kiểm tra sản phẩm	Full	Offline
4	17/07/2020	14:00	Báo cáo tiến độ và Kiểm tra sản phẩm	Full	Offline
5	22/07/2020	14:00	Kiểm tra sản phẩm	Full	Offline

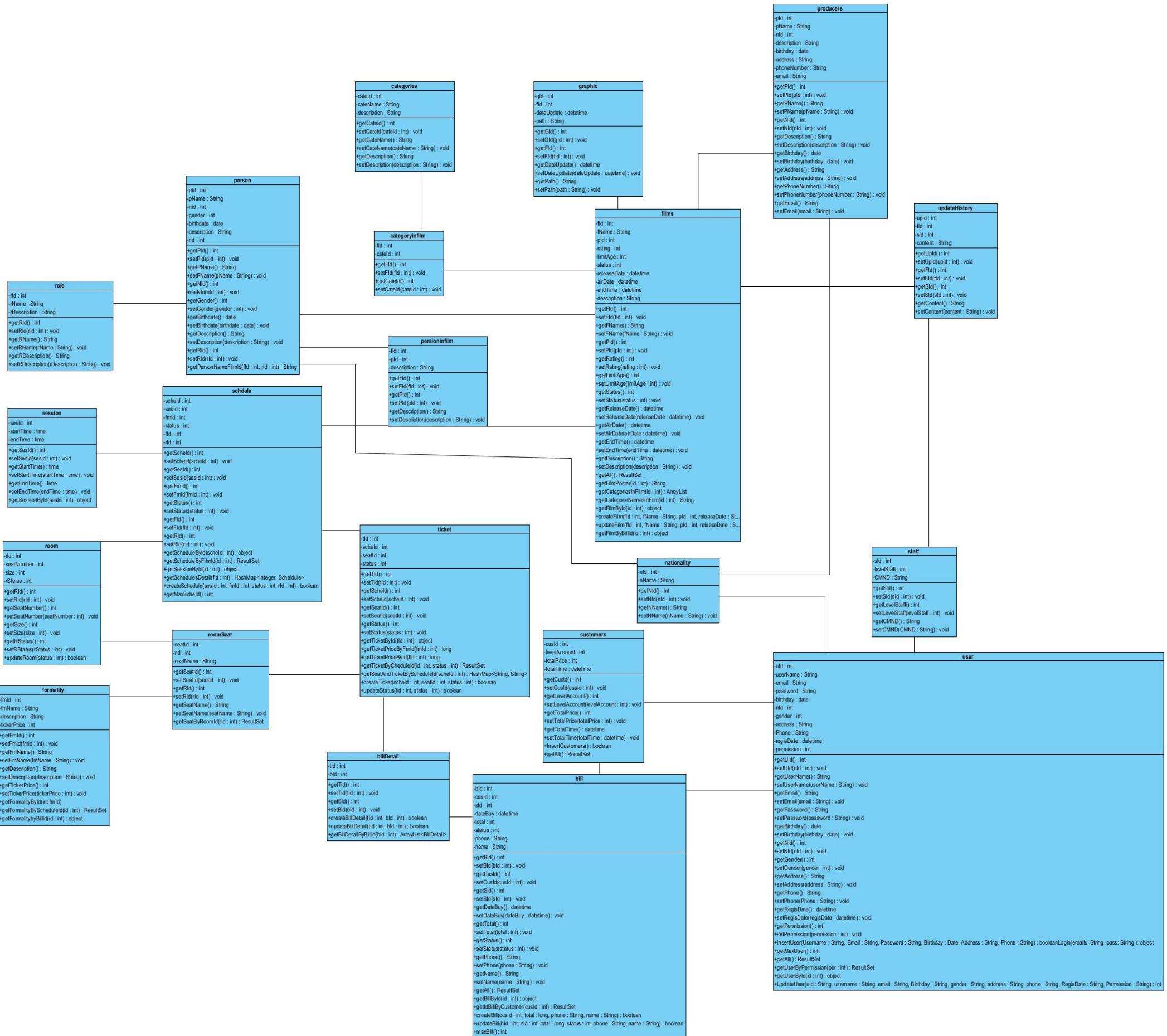
X. Design Pattern

1. Data base Diagram

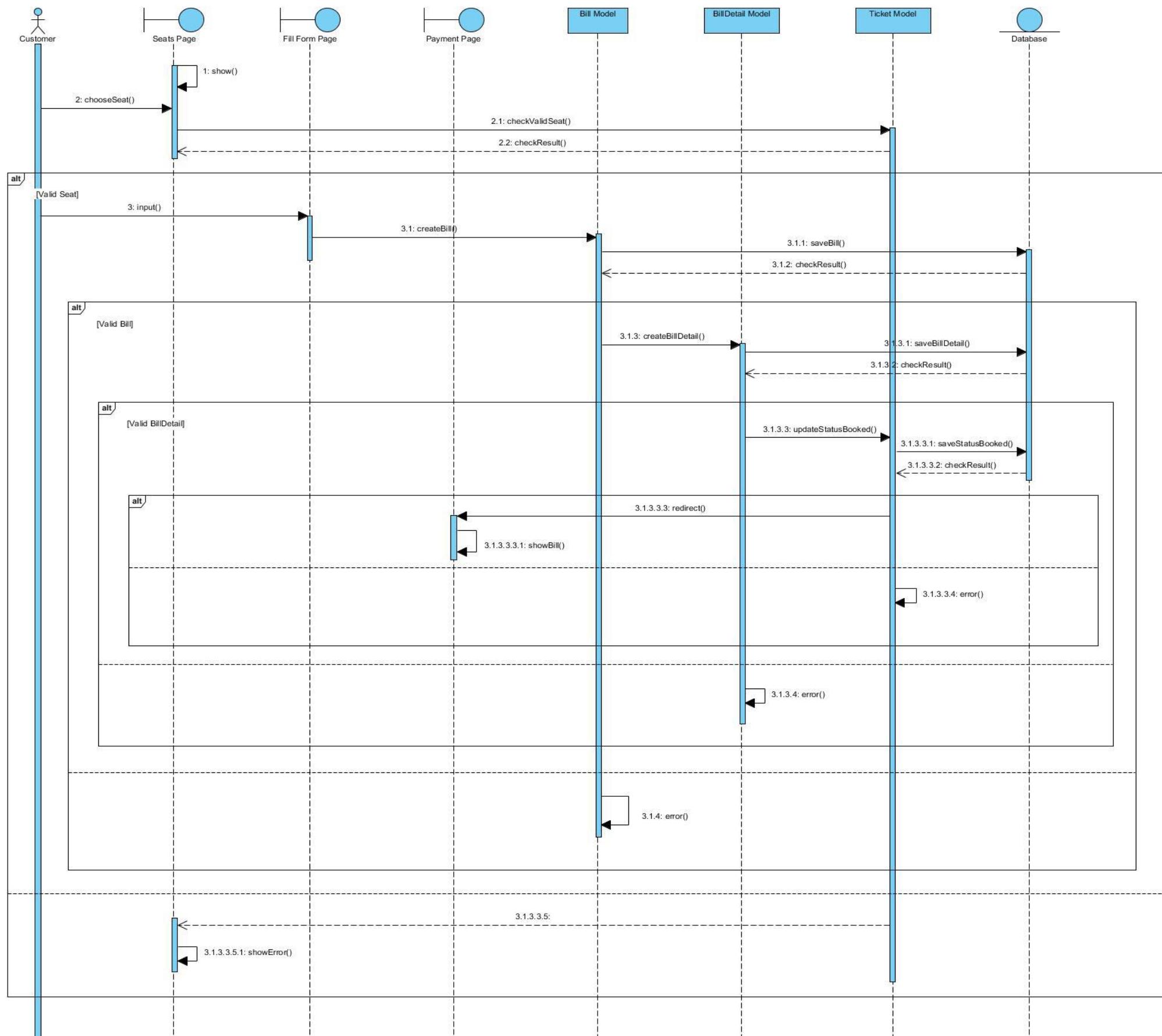


dbdiagram.io

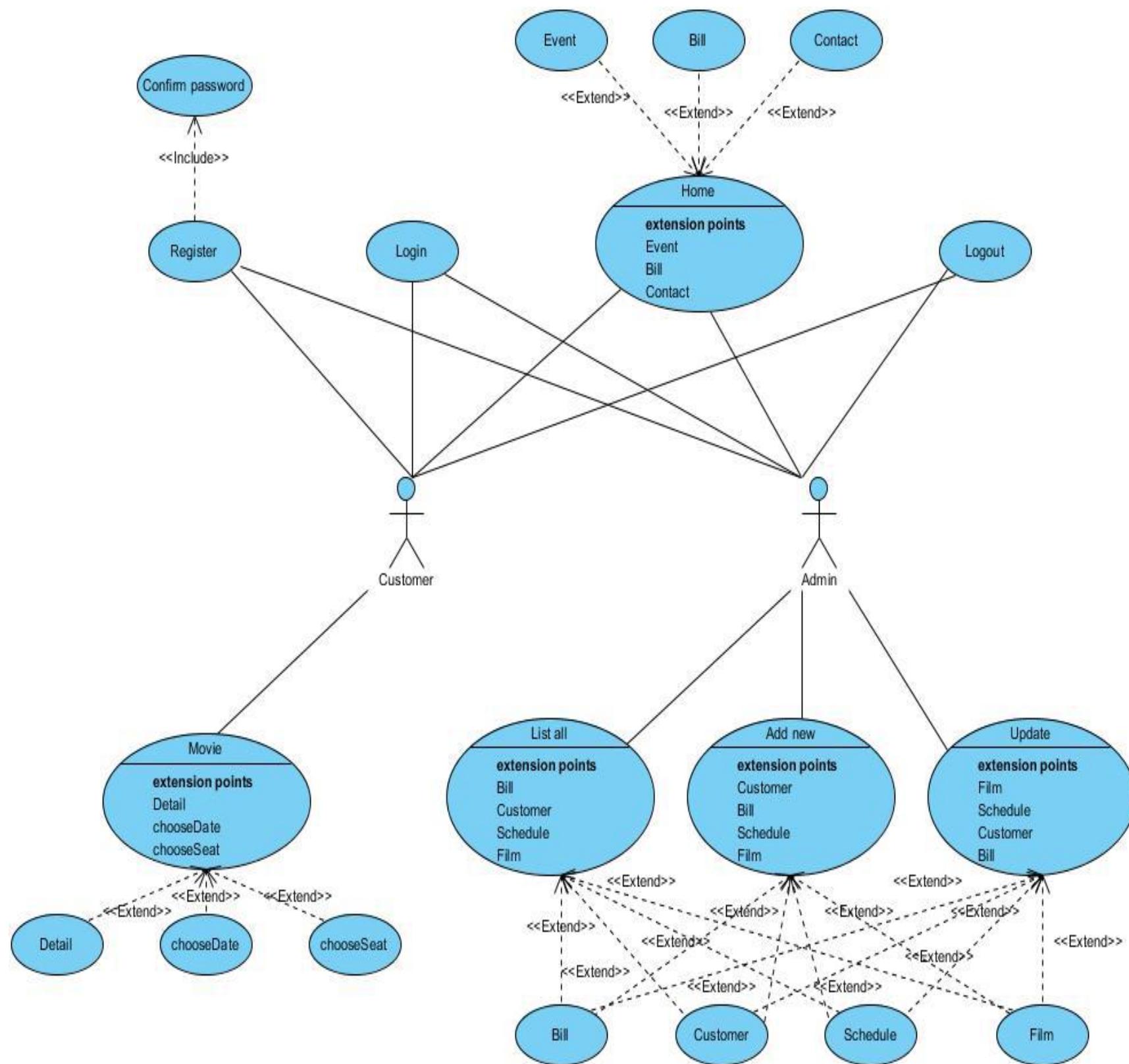
2. Class Diagram



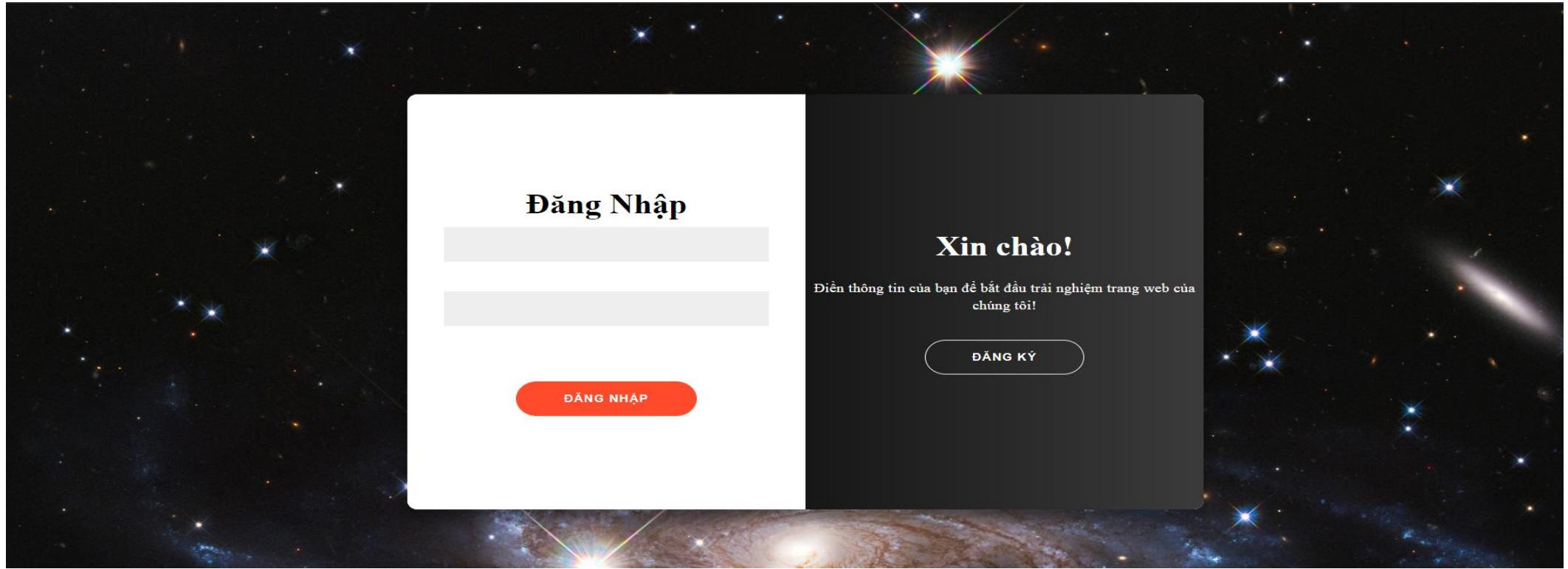
3. Sequence diagram



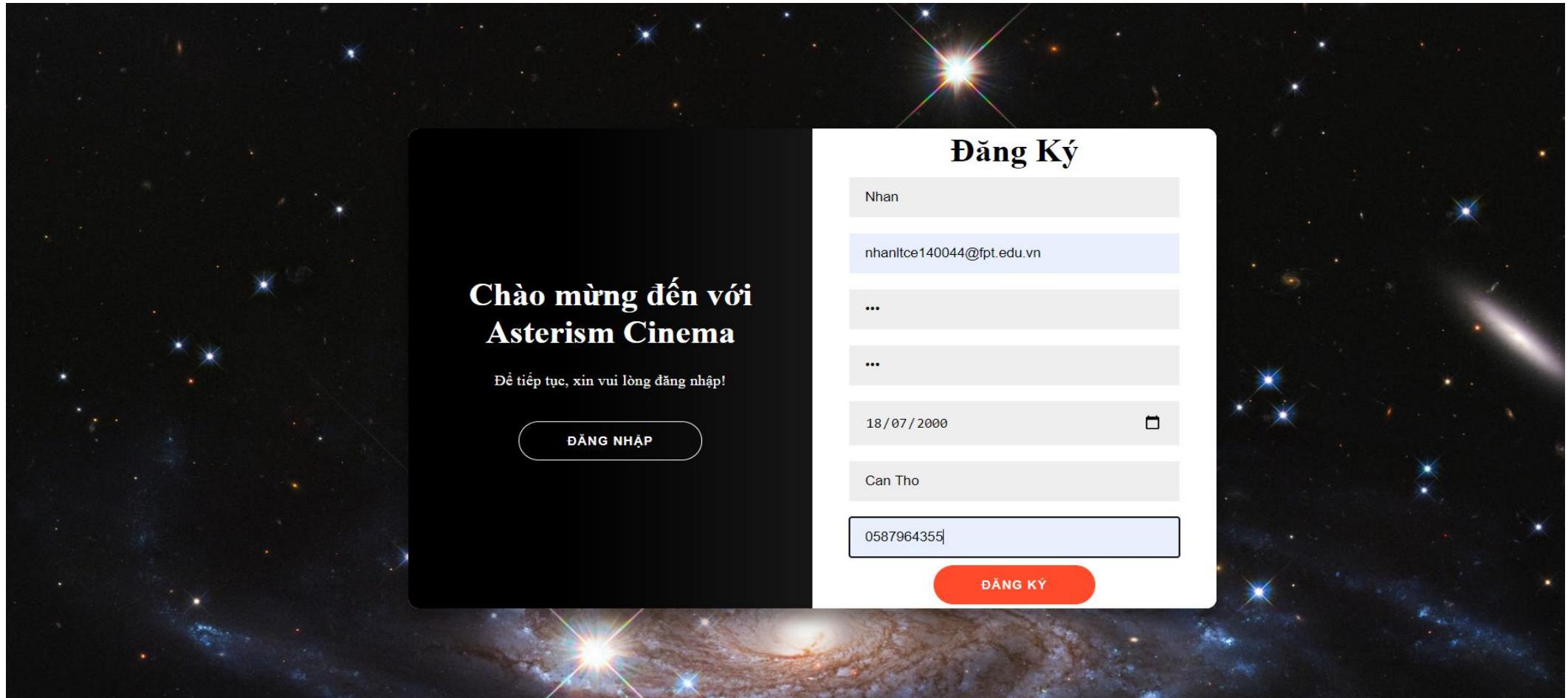
4. Usercase diagram



XI. Program Interface



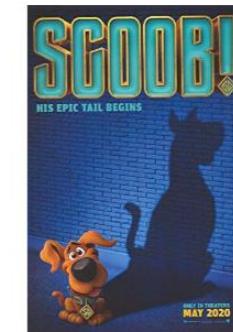
Login Page



Register Page

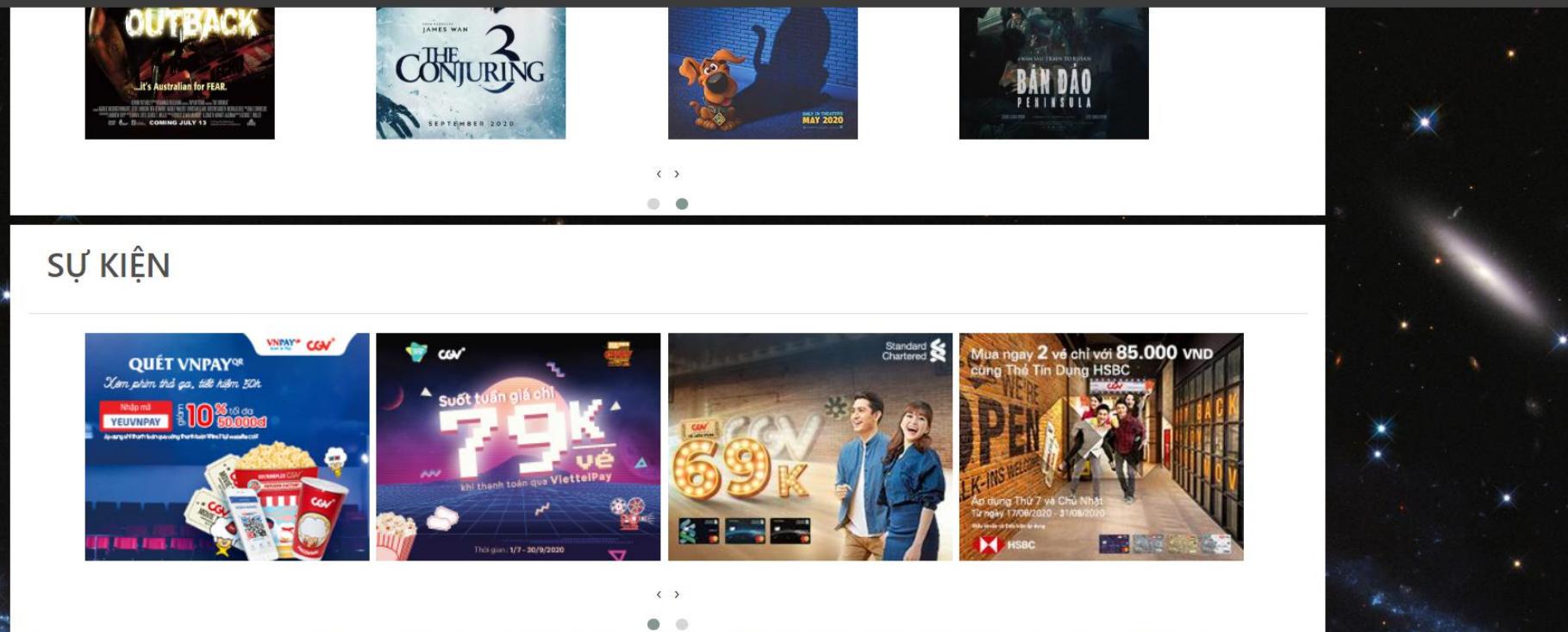


PHIM MỚI



SỰ KIỆN





Thông tin rạp

SE1403

Đại học FPT Cần Thơ

Khu Vực 6, Phường An Bình, Quận Ninh Kiều, Tp Cần Thơ

Chăm sóc khách hàng

Mọi chi tiết xin liên hệ

nhanltce140044@fpt.edu.vn

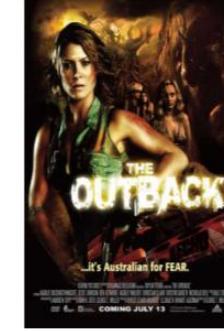
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Asterism

Home Page

PHIM MỚI



PHIM ĐANG CHIẾU

Fri Sat Sun Mon Tue Wed Thu



Peninsula

Because of the huge amount of \$ 2.5 million, veteran Jung Seok returned to the peninsula despite the situation of thousands of hanging hair. Unfortunately, he and his comrades were metamorphosed 631 brigade with swarm of bloodthirsty zombies ambush. Rescued by the Min Jung family, Jung Seok must find a way to escape before it's too late! Blockbones Peninsula is part 2 Train To Busan that caused storms in 2016.

LỊCH CHIẾU

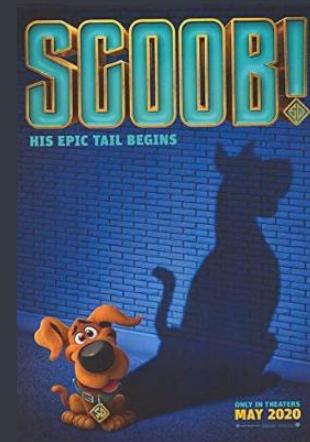
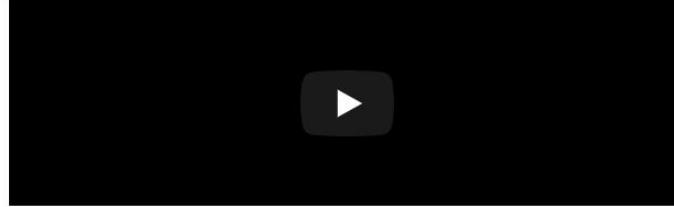
SẮP RA MẮT

HÀNH ĐỘNG VIỄN TƯỞNG

SROOB!

Jul 26, 2020

The adventures of the dog Scooby-Doo and friends have returned. This time their journey is to prevent a conspiracy to endanger the world, coming from a ghost dog named Cerberus.



Film Page



Peninsula

Đạo Diễn:

Diễn Viên: Kim Moo Yul

Thể Loại: Kinh dị

Ban Age: 18+ - Phim cấm khán giả dưới 18 tuổi

Thông tin chi tiết phim

Because of the huge amount of \$ 2.5 million, veteran Jung Seok returned to the peninsula despite the situation of thousands of hanging hair. Unfortunately, he and his comrades were metamorphosed 631 brigade with swarm of bloodthirsty zombies ambush. Rescued by the Min Jung family, Jung Seok must find a way to escape before it's too late! Blockbones Peninsula is part 2 Train To Busan that caused storms in 2016.

Film Detail Page

BOOKING ONLINE

Rạp 1



Màn Hình

A1	A2	A3	A4	A5	A6	A7	A8
B1	B2	B3	B4	B5	B6	B7	B8
C1	C2	C3	C4	C5	C6	C7	C8
D1	D2	D3	D4	D5	D6	D7	D8
E1	E2	E3	E4	E5	E6	E7	E8
F1	F2	F3	F4	F5	F6	F7	F8
G1	G2	G3	G4	G5	G6	G7	G8
H1	H2	H3	H4	H5	H6	H7	H8

QUAY LẠI

D4, D5

TIẾP TỤC

Thông tin rạp

Chăm sóc khách hàng

Choose Ticket Page



Peninsula

2D

Ban Age: 18+ - Phim cấm khán giả dưới 18 tuổi

toan

1234567890

Đặt Vé

Tên rạp: Asterism

Giá phim: 90000

Xuất chiếu: 22:26:00-23:26:00

Tổng: 180000

Phòng chiếu: 1

Số ghế: D4, D5



Peninsula

Loại: 2D

Mã hóa đơn: #6

Tên người đặt: toan

Số điện thoại: 1234567890

Tổng giá: 180000 VND

Thông tin rạp

SE1403

Chăm sóc khách hàng

Mọi chi tiết xin liên hệ



Bill Page



Asterism

Thêm Phim Mới Danh Sách Phim Sắp Chiếu Phim Đang Chiếu Phim đã Xóa Doanh Thu

Mã Phim

POSTER

Tên phim

Tuổi giới hạn

Trạng thái

Admin

Danh sách phim

Danh sách hóa đơn

Danh sách người dùng

Danh sách lịch chiếu

Thoát

Mã Phim	POSTER	Tên phim	Tuổi giới hạn	Trạng thái	
#1		SROOB!	12+	Sắp chiếu	
#2		Peninsula	18+	Đang chiếu	
#3		WITHOUT A BODY	18+	Sắp chiếu	
#4		PINOCCHIO	6+	Sắp chiếu	



Asterism

Admin

Danh sách phim

Danh sách hóa đơn

Danh sách người dùng

Danh sách lịch chiếu

Thoát

Thêm phim mới

Tên Phim:

POSTER:
 Không có tệp nào được chọn

Nhà Sản Xuất:

Giới Hạn Độ Tuổi:

Thông Tin Phim:

Ngày Phát Hành:

Ngày Công Chiếu:

Ngày Kết Thúc:



Asterism



Asterism

Admin

Danh sách phim

Danh sách hóa đơn

Danh sách người dùng

Danh sách lịch chiếu

Thoát

Thêm Phim Mới Danh Sách Phim Sắp Chiếu Phim Đang Chiếu Phim đã xóa Doanh Thu

Mã Phim POSTER Tên phim Tuổi giới hạn Trạng thái

#1		SROOB!	12+	Sắp chiếu			
#2		Peninsula	18+	Đang chiếu			
#3		WITHOUT A BODY	18+	Sắp chiếu			
#4		PINOCCHIO	6+	Sắp chiếu			



Asterism

Admin

Danh sách phim

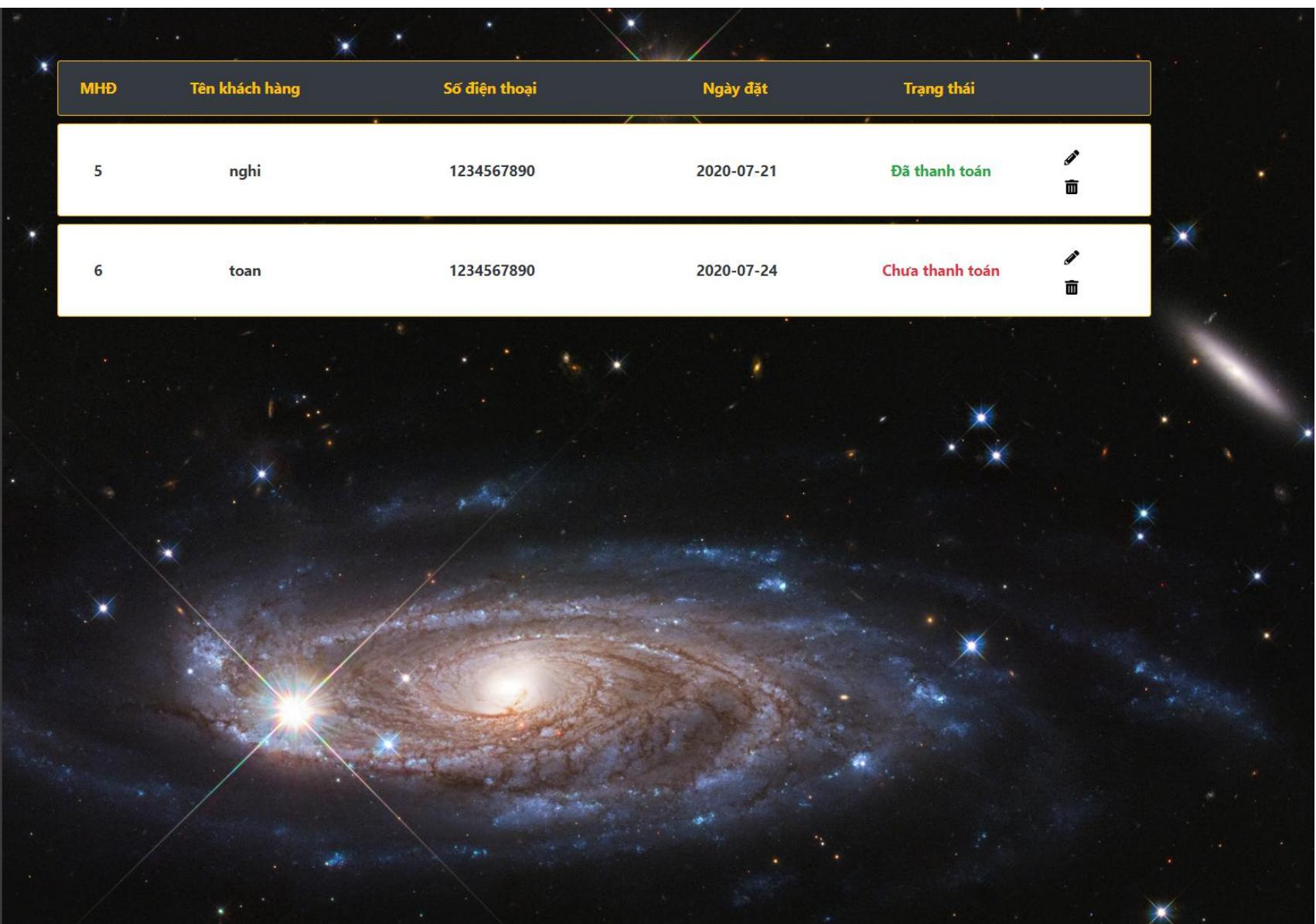
Danh sách hóa đơn

Danh sách người dùng

Danh sách lịch chiếu

Thoát

MHĐ	Tên khách hàng	Số điện thoại	Ngày đặt	Trạng thái	
5	nghi	1234567890	2020-07-21	Đã thanh toán	
6	toan	1234567890	2020-07-24	Chưa thanh toán	





Asterism

Admin

Danh sách phim

Danh sách hóa đơn

Danh sách người dùng

Danh sách lịch chiếu

Thoát

Name	Role	Email	Phone	Address	Gender	
staff	Staff	staff@gmail.com	0832629473	can tho	Female	
nghi	Customer	nghipq@gmail.com	0832629473	can tho	Male	
com	Staff	com@gmail.com	0832629473	can tho	Female	
nhan	Customer	nhanltce140044@fpt.edu.vn	0587964355	Can Tho	Female	
toan	Customer	toan@gmail.com	0949668182	Can Tho	Female	

Admin Page



Asterism