# Abstract

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# Introduction

# Literacture review

## Over view of online video platform domain

Review about your domain ( what is contribution of this domain to the world industry, how current status of this domain, review current product in market/domain in brief; trends; technolges applied in this domain; existing problems need to be tackle in the future -----🡪 narrow the domain to your topic to raise the question “why you need to build up your project” Or “How your topic will contribute to your domain or reinforce shortcoming, improve problems in your domain ” ( only introduce some brief about your topic reasons, we will introduce it in detail later)

Nowadays, with the development of internet and information technology, Online Entertainment has become an indispensable spiritual food for everyone. In particular, online movie watching accounts for a high proportion in the online entertainment industry.

## History of on online movie domain (online video platform)

Review history of your domain (for example, if you choose topic is e-commerce website, you need to review about history of website development and e-commerce)

The online movie-watching industry encompasses all internet video sharing platforms from free to paid platforms, from copyrighted and non-copyrighted. The most famous of those platforms are Netflix, Youtube, Facebook, HBO and wandisney. . .

### History and development website

When it comes to the Internet, people often refer to the standard set of TCP / IP and its most typical services are email, FTP (File Transfer Protocol) and WWW (World Wide Web). However, WWW plays the most important role because it determines the model of the internet.

The movie-watching web concept started after WWW was created by Tim Berner lee in 1990

### History and development of online video platform

## Similar product

- Review about how many and the quality of each similar solution/product in the market (evaluating pros and cons), related to your solution/product.

- Indicate the outstanding points in your solution/product, compared to others., how it contributes to industry and tackle these existing problem.

### NetFlix

Netflix was founded in 1997.It is the US online video streaming service that has been present in 200 countries around the world, including Vietnam, the content is mainly movies and popular TV shows. Currently, Netflix in Vietnam, some movies have Vietnamese subtitles.

The content of Netflix is mainly TV series and TV shows of all industries, both produced by Netflix and from other producers.

In addition to the "homemade" movies that are carefully invested in both script content as well as editing techniques, Netflix is favored by many users for its huge and attractive movie store such as: netflix's series , blockbuster movies, crime-detective films, Disney movies, sci-fi movies, dramas, comedies, Korean movies, cartoons, horror films, documentaries, ...

**Advantage of NetFlix**

* Watch movie immediately : Just like the giants in the digital content streaming industry, but Netflix is the leader in digital content streaming services and, more specifically, Netflix does not allow users to rent movies. Users have to sign up for a monthly paid membership and they can watch any good Netflix movie anywhere, at the time they want.
* Variety of movies: With Netflix, they have a number of high quality videos and movies that can satisfy different customers. Blockbuster movies, movies, short series, sitcoms, cartoons, ... spoiled for choice to watch and watch Netflix movies in Vietnam fast, smooth and search function works. quite effective.
* Intuitive movie recommendation system: With Netflix, the online movie service has a system that analyzes user behavior in depth based on their viewing history (cookies netflix) to recommend movies that match user preferences. This is quite useful and convenient because you don't have to search and find a good movie that suits you.
* Good price: When registering for a Netflix account, users will have to pay an average of 220,000 VND / month to use, in addition, do not lose any costs. With the above money, you can watch unlimited Netflix movies, the price is reasonable, but in terms of general price, it seems a bit high for consumers in Vietnam.

**Disadvantage of Netflix**

* Complicated payment process: when users wants to register to use Neflix's service, they must have an international payment account. Obviously, this makes it difficult for many customers, because not everyone has an international account.
* Outdate library: Netflix offers a ton of great movies with copyright. However, those movies are updated very late and you can barely watch the newly released TV series. There is even a movie coming out a few years before it appears on NetFlix.
* Movie list depend on location:Depending on the country and geography, Netflix will limit a number of movies that are incompatible with the politics and culture of certain countries. Specifically in Vietnam, Netflix will restrict some war films that defame the current government and some Chinese films with content that violates Vietnamese sovereignty.

### Youtube

Youtube social network is one of the products of Google. They are capable of storing the most popular online video sharing in the world today. Youtube appeared in 2005 and was immediately acquired by google in 2006. Soon after that, Youtube was significantly improved in terms of connection speed as well as other features.

There are many channels on Youtube, you can find different topics according to what you are looking for. Currently this social network has more than 2.3 billion users. There are over 80 different languages for youtube.

**Advantage**:

* Videos on youtube are diverse and many different genres and genres. Helping the seeker to choose the most comfortable way.
* It is easy for the users to post their own videos online. Make it accessible to all over the world just through an internet connection.
* Youtube has become one of the most important parts of online communication, on web pages.
* Thanks to YouTube, people can view moments, videos and events over time.
* Users can make money from their own videos through advertisement, sponsorship , afiliate links…
* Thanks to youtube, celebrities can interact. They will be known by many people faster with the speed of video spreading quickly.
* Fast video loading speed helps viewers have the most enjoyable experience whether you are watching on the phone or computer.
* Youtube is also a social network to evaluate an individual or organization to see if they have many people interested or disliked.
* Help to bring great benefits to users. For example, you can find a way to make a cake, plant a tree, study, work ... on youtube.
* The results of the search are always pleasing to the customer.

**Disadvantage:**

* Youtube itself has no control over the videos uploaded. So this results in a lot of inappropriate videos appearing.
* Video can be monetized, so many people have been defiant with posting inappropriate content. And even upload offensive videos for my own gain.
* There are many types of videos with uncontrolled or violent forms that do not limit the age of the viewer.
* Transforming videos in many different directions makes viewers feel uncomfortable.
* Everyone is free to comment and in many cases, vulgar and uncultured language were not reported or disproved.

### Fpt Play

FPT play is a famous movie-on-demand service in Vietnam. It offers a variety of premium and paid video content. For certain movies it doesn't require the user to log in, so the user will be interrupted by ads.

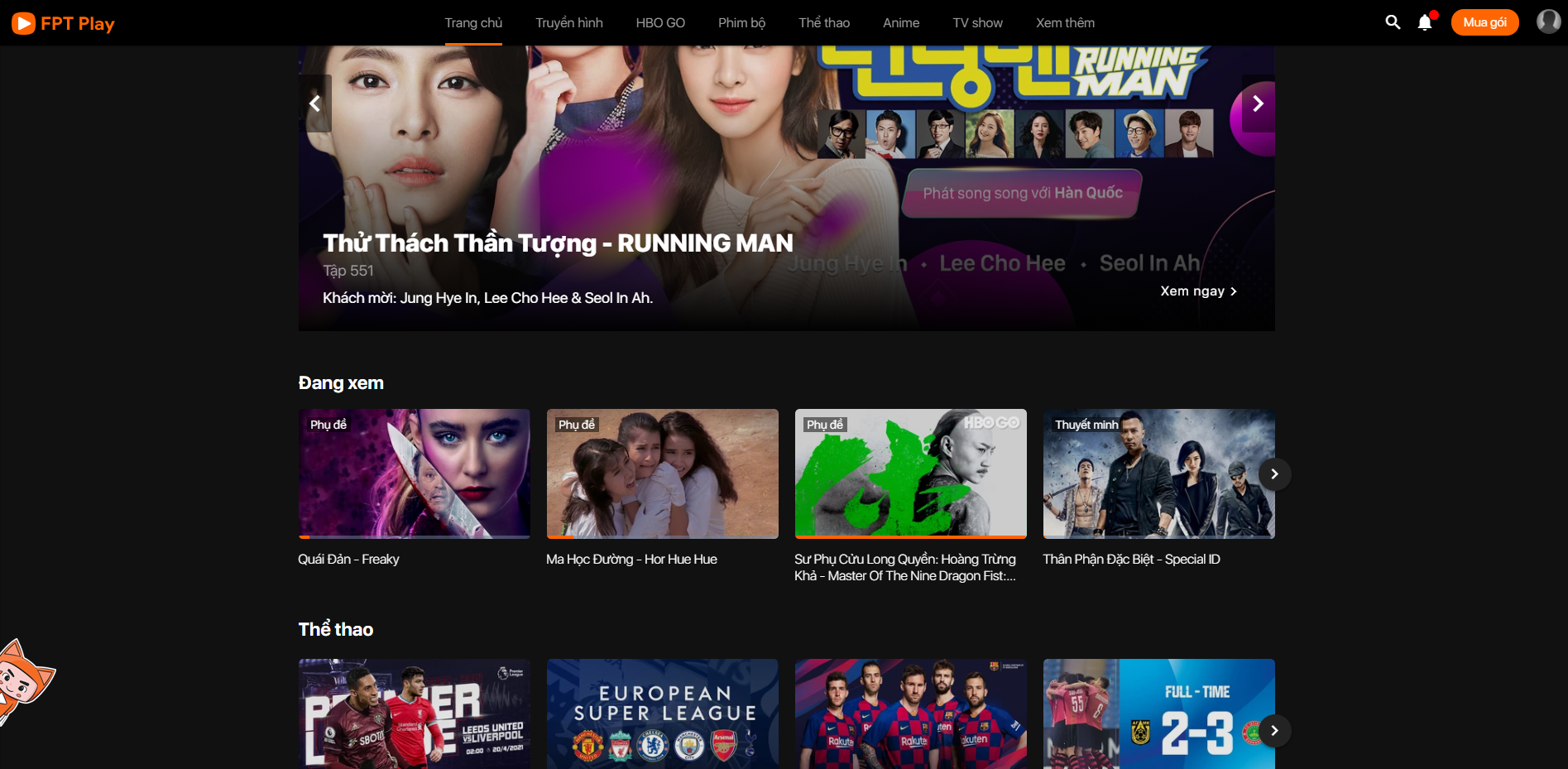


Figure 1 FPT play home page

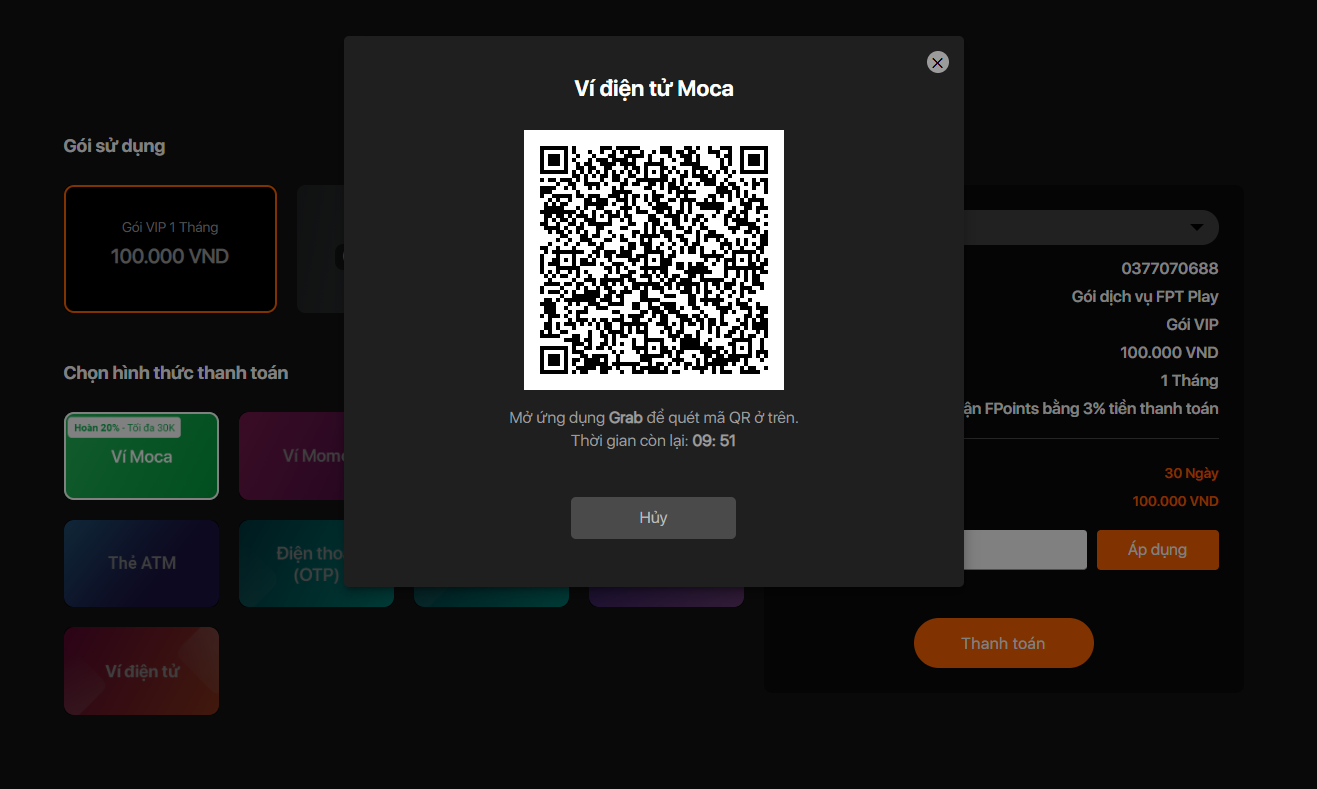


Figure 2 online payment

The picture below shows the homepage of FPT play. As you can see the interface of this site is simple, easy to use, suitable for most of Vietnamese people. Add to that a dark background that is great for the eyes at night. Viewers will not feel eye strain every time they visit the website at night.

The feature I love the most on FPT play is its payment convenience. It supports most of the current forms of payment, including online payment via e-wallet, domestic ATM card or Visa ... With a variety of payment methods. It is not liked by many users.

One of its great features is the ability to keep a record of the movies I am interrupting. Every time I turn off the web browser and then reopen it, I don't need to waste time searching for the viewed position and continue. The system will automatically ask me to continue watching from the interrupted position.

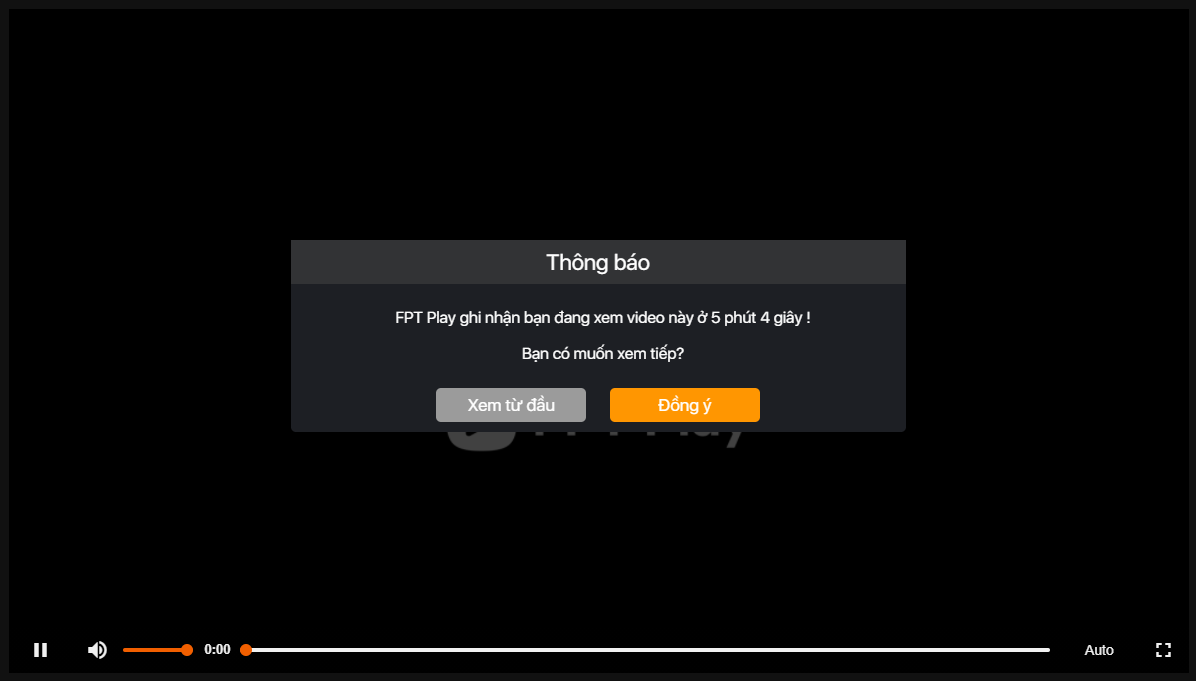


Figure 3 continue from previous interupt

However, it has a few limitations as follows. The movie loading speed will be slow if the user has internet bandwidth 20 Mbps. Website is very slow adaptive transmission so often lead to problems infinity loading problem.

Additionally, every time the web page scrolls too fast, the movie avatars will not load in time resulting in black boxes. That makes users uncomfortable.

Graphical user interface, website

Description automatically generated

Figure 4 lazy load image issue

### Analysys these product

First of all, we see, all 3 sites are applying single page application technology. That means the page won't reload every time a user clicks on a link or action and speeds up the page.

## Implementation technologies

Review tools, technologies in the market which are feasible using for your solution/product ( Compared to other tools so as to indicate how it is proper for your solution, pros and cons of each tools. Techs)

After evaluating each tools, technologies, you need to propose what is the best tools and techniques you choose for the project. (Why you choose it, how feasible it is)

### System architecture

### Video streaming technology

### Video protection technology

### Client-side technology

#### Bootstrap

#### Jquery

#### Html 5, css

#### Angular

### Server-side technology

#### Asp.net MVC

#### Node js

#### Laravel(Php framework)

#### PHP

## Development methodologies

### Agile

### Scrum

### WaterFall

### RAD

# Requirement gathering

# Implementation

# Testing

# Deployment

# Ethical and Legal

# Evaluation

# Future work

# Conclusion

# References