

B.Sc. ENGG. REPORT

A Project Report on Online Streaming Platform - CINE BILASH

Department of Computer Science & Engineering

(In partial fulfillment of the requirements for the degree of
Bachelor of Science in Computer Science & Engineering)



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Approval

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Chapter 1

Introduction

A streaming platform is a digital platform that allows users to access and consume media content in real-time over the internet. This content can include movies, TV shows, music, podcasts, and live events such as sports and concerts. Streaming platforms work by delivering content through the internet to a user's device, such as a smartphone, tablet, or smart TV. Unlike traditional broadcast or cable TV, streaming platforms do not require users to download content before watching. Instead, they can start watching immediately, allowing for a more flexible viewing experience. Some popular streaming platforms include Netflix, Amazon Prime Video, Hulu, Disney+, Spotify, and YouTube. These platforms have revolutionized the way people consume media, providing users with a vast library of content to choose from and giving creators and producers new avenues to distribute their work.^[1]

1.1 System Description

” Cine Bilash ” is an online video streaming platform. ” Cine Bilash ” offers a bunch collection of movies, web series and so on across 5 languages. Highly evolved video streaming technology and a high attention to quality of experience across devices and platforms which will make the customers encourage smooth experience on Online streaming Platform. Cine Bilash provides users with a range of features to enhance their streaming experience. The platform offers personalized recommendations based on a user's viewing history and preferences, allowing users to discover new content easily. The platform also features a comprehensive search function,

enabling users to quickly find the content they are looking for. Additionally, Cine Bilash offers seamless integration with other devices, such as smart TVs, tablets, and smartphones, ensuring that users can access their favorite content from anywhere at any time.

1.1.1 Seamless Playback

Our adaptive video streaming technology ensures that the best possible video quality is played back automatically based on the available bandwidth, therefore making it a great video experience on both mobile networks as well as WiFi internet connections. Our video is optimized to play on mobile networks with inconsistent throughput so that our users don't have to compromise on their experience on the low end, and play HD quality video on the top end of bandwidth availability. Additionally, our users can manually select the quality of video that suits their taste.

1.1.2 Smart Search

Content search on "Cine Bilash" has been optimized to reduce complexity and delay in accessing content. Accurate search results, with lightning fast auto-complete suggestions navigate users to video with minimal navigation friction and ease of use.

1.1.3 Latest Contents

The audience will get latest content regularly such as - movies, web series.

- Two movies in a month

The audience will get Two new original movie every month around the year.

- Existing original web series

Our Audience will get Thrilling, rom-com, trending Bangla, English, Hindi and so on across 5 languages with original web series with top star-cast & talented directors.

- Trending movies & web-series

Hot new releases from theatres are here. "Cine Bilash" is like your own personal movie theatre.

- Top reviewed

” Cine Bilash ” cares about you and for that we add Top reviewed list for you. In this list a audience will see - the list of movies & web-series and so on reviewed by the Audience who already watched.

1.2 Objective

- Give a smooth video streaming experience
- Give users a proper medium to entertain
- Giving a preview to the users before registration
- User Friendly interface and very low cost subscription
- 24/7 customer support

1.3 Motivation

Basically after using Chorki, Disney plus, Netflix and so on we found out few problems as like - buffering issue, No preview system, country restriction and so on. We decided why not make a platform where user gets almost everything that needed.

That is why we decided to work on this project. Improving few things as like -

- more than 5 language based movies, web-series etc.
- low cost subscription
- Preview system before Registration
- Genre based specific Movies, Web-Series Categories & Sub-categories
- easy to use & handle
- no country restriction

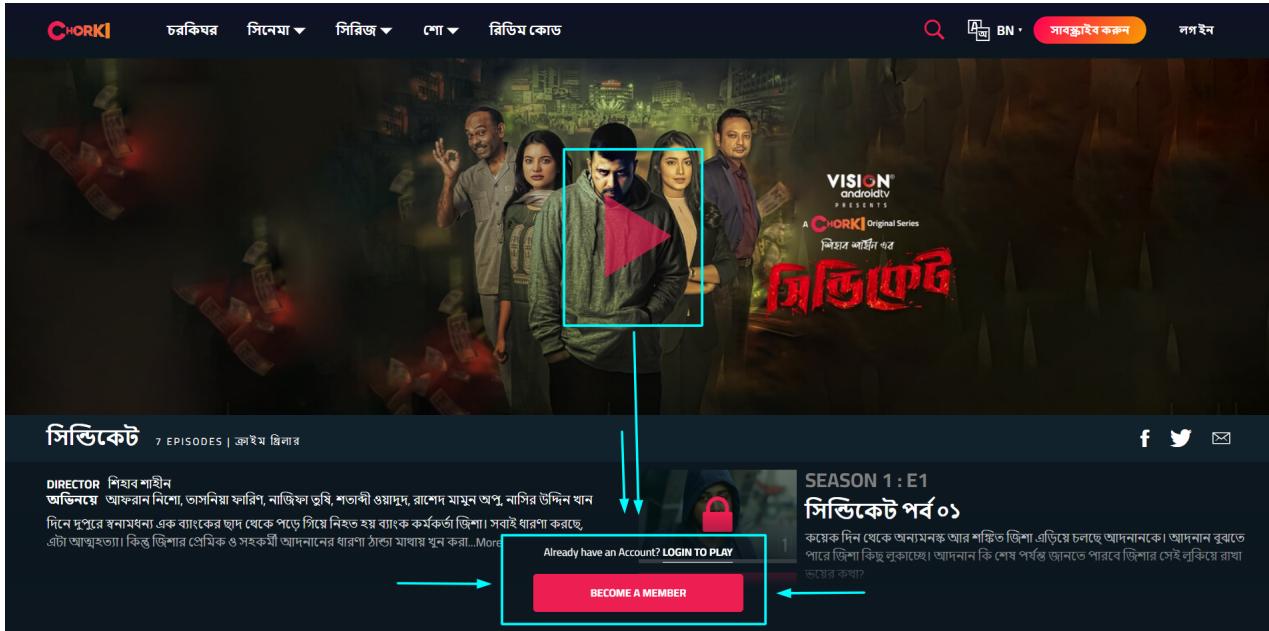


Figure 1.1: No preview Before Registration in Chorki

1.4 Audience

Any one from any place can be a member/audience of ” Cine Bilash ”. In ” Cine Bilash ” there are two types of users one is **free user** and other one is **premium users**.

1.4.1 USER

- **Free User**

A free users can watch movies, web-series and so on but there are few limitation. A free user can not access premium list, movies, web-series etc.

- **Premium User**

A premium user can watch any movies, web-series etc. and there will no ads available for premium users. There are 3 Types of subscription - monthly & yearly based. By purchasing any of these you can enjoy premium contents.

1.4.2 ADMIN

- An admin is also a user of this system because he/she controls this system.

1.5 Scope of the System

- Adding payment system such as - mobile banking
- Adding top review sub navigation bar for the users
- Introducing preview system before registration
- Adding categories and subcategories of movies/web series/TV shows
- Cross platform based i.e mobile, desktop, online with lag free watching

1.6 Organization of This Report

- The rest of the book is organized in the following way. In Chapter 1, we will show the background and related research studies. After that,
- In Chapter 2, describes Literature review, existing system . In existing system, we will discuss about the some of Streaming Platform Moreover, in this part we will also discuss about the many types of existing way .
- In Chapter 3, consists of our Proposed Model. The diagram,graph and also step by step discussion and figure will be provided there. In this chapter first we discuss the full procedure with figures. .
- In Chapter 4, consists of our Implementation. The implementation and Processing will be shown step by step discussion and figure will be provided there. In this chapter first we discuss the full Implementation system.
- In Chapter 5, concludes the Report of Our Project. In this chapter we will discuss about limitations and future works. In limitation part we will discuss about the limitations of our system. In future works we will discuss about the ideas which we will develop in future

1.7 Conclusion

The streaming industry has experienced tremendous growth in recent years, driven by advancements in technology and changes in consumer behavior. With the rise of on-demand streaming platforms, consumers have more control over what they watch and when they watch it than ever before. As a result, streaming services have become a major force in the entertainment industry, challenging traditional broadcast and cable television models.

Chapter 2

literature review

2.1 Introduction

The streaming industry has experienced tremendous growth in recent years, driven by advancements in technology and changes in consumer behavior. With the rise of on-demand streaming platforms, consumers have more control over what they watch and when they watch it than ever before. As a result, streaming services have become a major force in the entertainment industry, challenging traditional broadcast and cable television models.

2.2 Existing System

streaming platforms comprises of various on-demand services that allow users to access a wide range of content through the internet. These platforms have disrupted traditional models of television and film distribution, giving consumers unprecedented control over their viewing habits and creating new opportunities for content creators and advertisers. Some of the popular streaming platforms include:

1. Netflix: Netflix is one of the most popular streaming platforms in the world, with a vast library of movies, TV shows, and original programming. It operates on a subscription-based model and allows users to stream content on multiple devices.[2]



Figure 2.1: Netflix

2. Amazon Prime Video: Amazon Prime Video is another popular streaming platform that offers a wide selection of movies, TV shows, and original programming. It is available to Amazon Prime subscribers and can be accessed on multiple devices.[3]



Figure 2.2: Amazon Prime video

3. Hoichoi: Hoichoi is a popular Indian streaming service that specializes in Bengali content, including movies, TV shows, and original web series. It was launched in 2017 and has since gained a significant following among Bengali-speaking audiences around the world.[4]



Figure 2.3: hoichoi

4. Disney+: Disney+ is a streaming platform owned by The Walt Disney Company that offers a vast library of Disney-owned content, including movies, TV shows, and original programming.[5]



Figure 2.4: Disney+

5. Chorki: Chorki is a Bangladeshi OTT (Over-The-Top) platform offering a variety of local and international content including movies, TV shows, and original productions. It aims to cater to the growing demand for online streaming services in Bangladesh.[6]



Figure 2.5: Chorki

6. Zee5: Zee5 is an Indian OTT (Over-The-Top) platform offering a wide range of content including movies, TV shows, web series, and live TV channels in multiple languages. It is one of the popular streaming services in India with a large user base.[?]



Figure 2.6: Zee5

7. Bioscope: Bioscope is a Bangladeshi OTT (Over-The-Top) platform offering a variety of local and international content including movies, TV shows, live sports, and music. It is one of the popular online streaming services in Bangladesh with a focus on catering to the local audience.[7]



Figure 2.7: Bioscope

2.3 Conclusion

The streaming platform industry and its impact on the entertainment landscape. The rise of streaming platforms has disrupted traditional models of television and film distribution, giving consumers unprecedented control over their viewing habits and creating new opportunities for content creators and advertisers. Through the analysis of market analysis, user behavior, technological innovations, business models, content strategy, and the impact on advertising, this review has provided a comprehensive understanding of the key trends and challenges facing the streaming platform industry. The literature suggests that the industry faces increasing competition, content piracy, and changing consumer behavior, while also offering opportunities for growth and innovation. As the industry continues to evolve, stakeholders across the value chain will need to adapt to the

Chapter 3

Proposed Model

3.1 Introduction

In recent years, the popularity of streaming platforms has skyrocketed, leading to the creation of a plethora of platforms catering to a diverse range of audiences. However, with so many options available, users often struggle to find content that aligns with their interests. To address this issue, we propose a model of streaming platform. Our model employs a combination of collaborative filtering, content-based filtering, and hybrid recommendation techniques to provide personalized content recommendations to users. Furthermore, our model incorporates real-time feedback from users to continuously improve the accuracy of recommendations. Overall, our proposed model aims to enhance user experience on streaming platforms by providing personalized and relevant content recommendations. We believe that this model has the potential to revolutionize the streaming industry and create a more engaging and enjoyable experience for users.[7]

3.2 ER Diagram

An ER (Entity-Relationship) diagram is a visual representation of entities, attributes, and relationships involved in a system or a database. It is a type of data modeling tool used in software engineering and database design to help developers and designers understand and communicate the structure of the system. Entities are represented as rectangles, attributes are represented as ovals, and relationships are represented as diamond shapes. The rectangles and diamonds are connected by lines that indicate the type of relationship between them, such as one-to-one, one-to-many, or many-to-many.

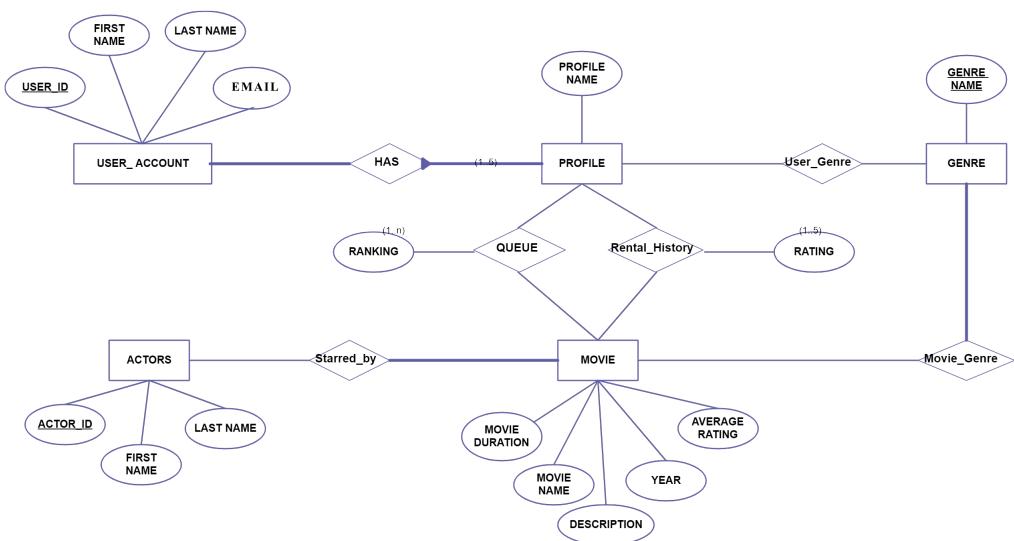


Figure 3.1: ER Diagram

3.3 Use Case Diagram

A use case diagram is a dynamic or behavior diagram in UML (Unified Modeling Language). Use case diagrams model the functionality of a system using actors and use cases. Use cases are a set of actions, services, and functions that the system needs to perform. In this context, a "system" is something being developed or operated, such as a web site. The "actors" are people or entities operating under defined roles within the system.[8]

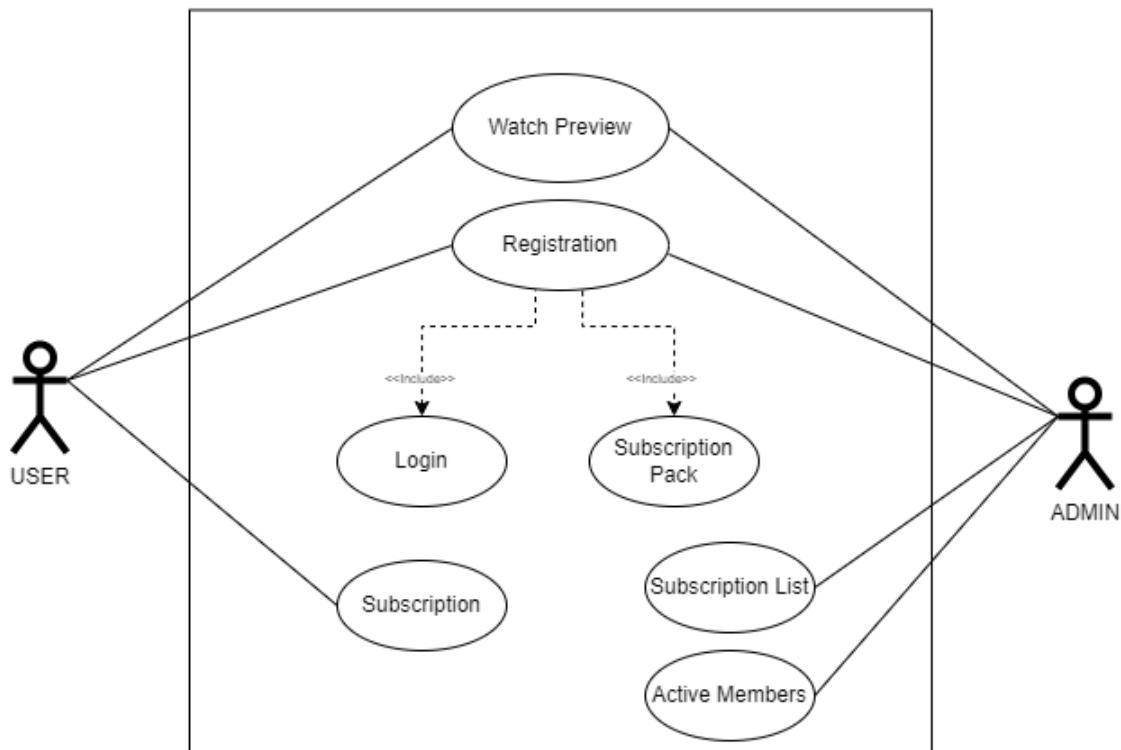


Figure 3.2: Use Case Diagram

3.4 Activity Diagram

An activity diagram visually presents a series of actions or flow of control in a system similar to a flowchart or a data flow diagram. Activity diagrams are often used in business process modeling. They can also describe the steps in a use case diagram. Activities modeled can be sequential and concurrent. In both cases an activity diagram will have a beginning (an initial state) and an end (a final state).

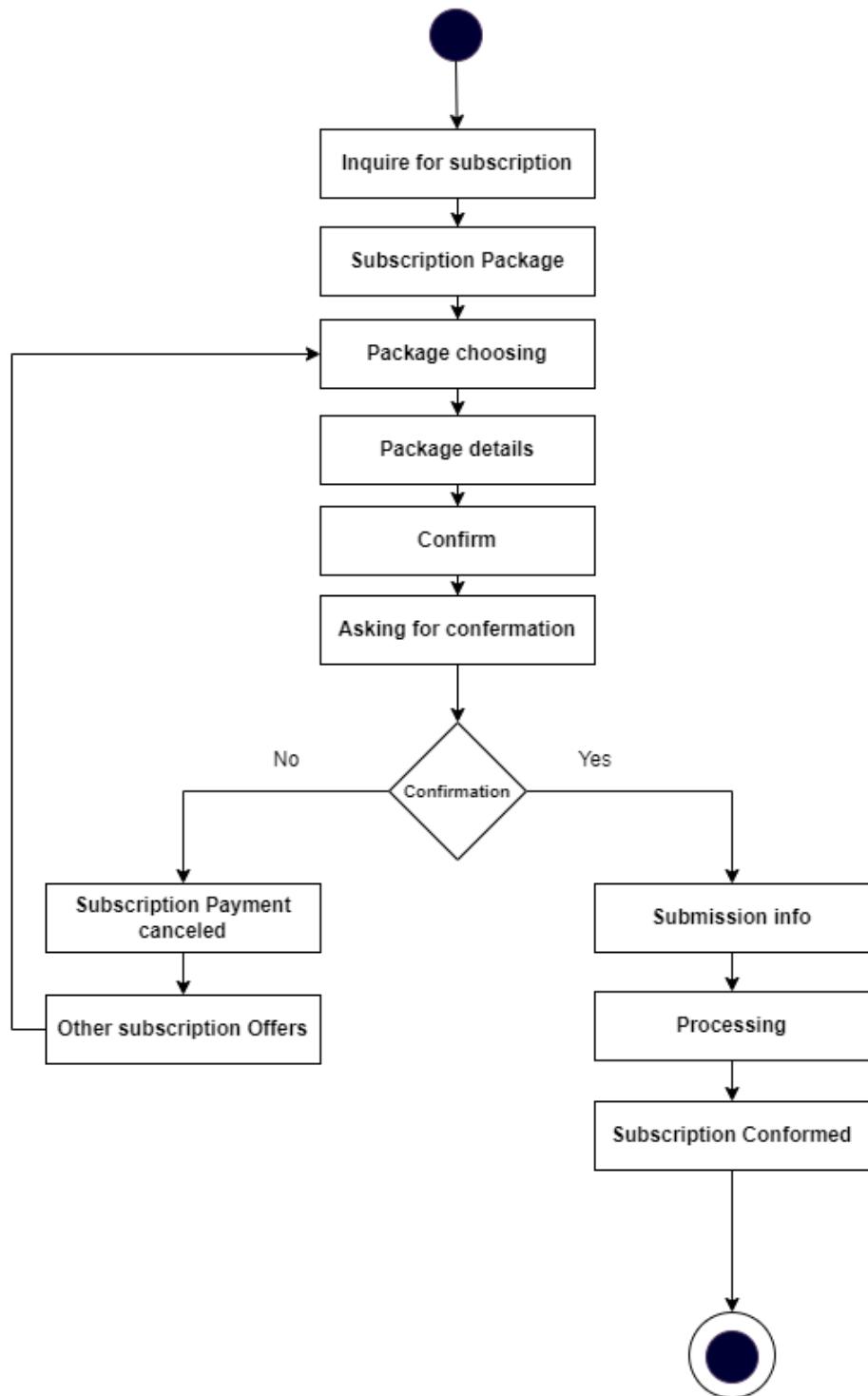


Figure 3.3: Activity Diagram

Chapter 4

Implementation

4.1 System development

To develop our system we used latest tools such as - used **wordPress** as CMS(content management system), **ProFreeHost** for domain & hosting, **Overleaf** for documentation, **Draw.io** for diagram draw. We also tried to improve our system from other(chorki, Hoichoi, Netflix, Amazon prime, Disney plus and so on) such as - added preview system, low cost subscription, no country restriction, less buffering etc.

4.1.1 ProFreeHost

ProFreeHost is an Indian based free web hosting company that provides free web hosting for all types of users. The hosting has eye-catching features like unlimited features that usually attract free users. We are not going to tell you about the features because it is available on the official site.

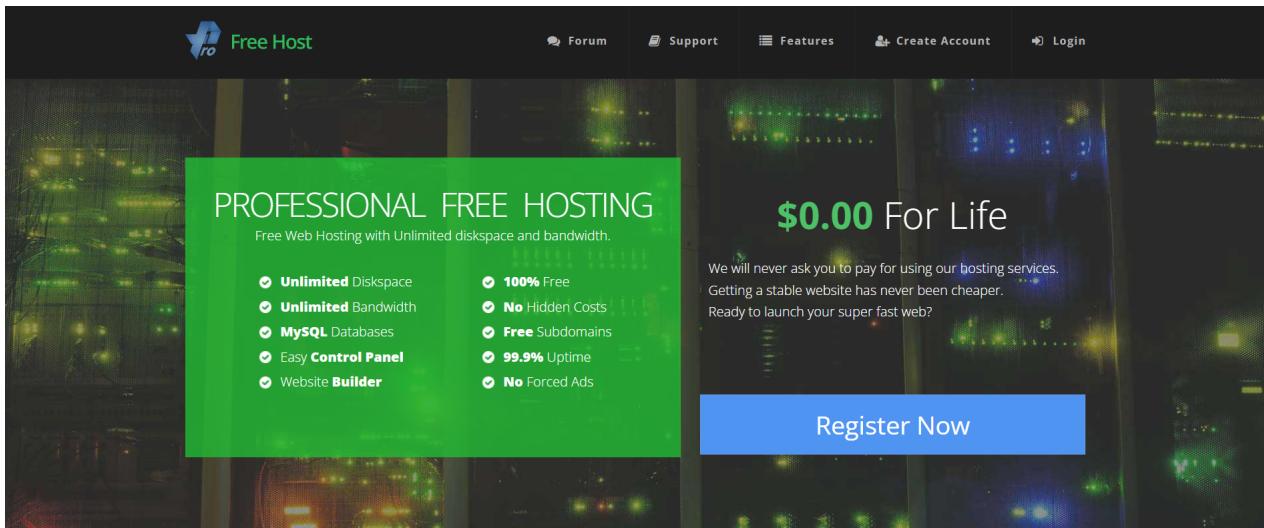


Figure 4.1: ProFreeHost - Free hosting

4.1.2 WordPress

WordPress is an open source, free website creation tool written in the programming language PHP. It is licensed under General Public License, which allows anyone to not only use the software but also to modify it to suit individual needs and share those modifications with others. “Open source” software is publicly available and always free so that WordPress can be downloaded at any time or installed as part of a web hosting package. Because WordPress invites modification and improvement, it has the support of a large and growing community of designers, developers, and lovers of the software.

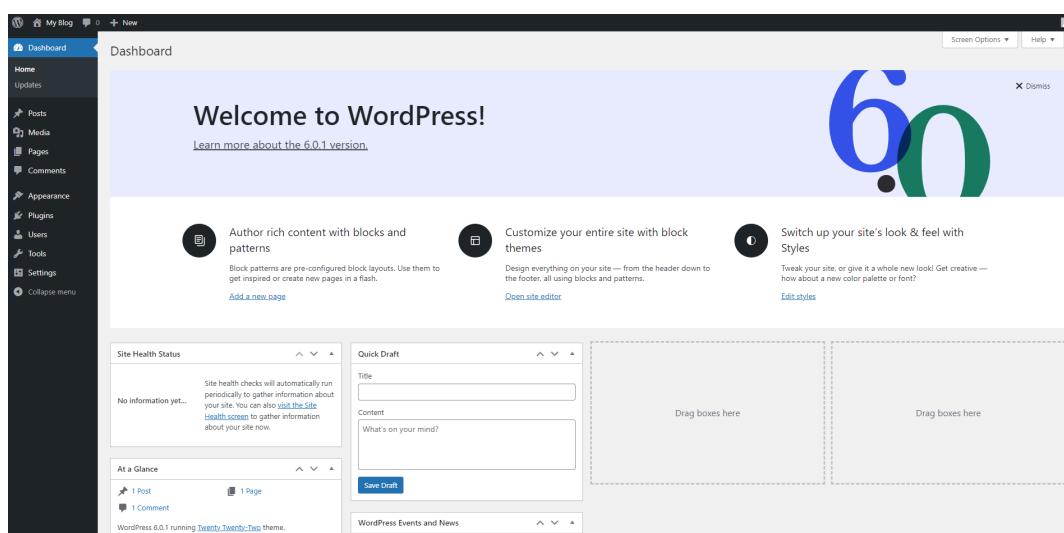


Figure 4.2: WordPress CMS Page

4.2 Homepage

This is the homepage where you will find movies, tv series, videos, blogs, garners, pages navigation bar. Each navigation bar has its own work. As like Inside Genres you will find Action , Romantic, Scientific etc. categories of list(movie).

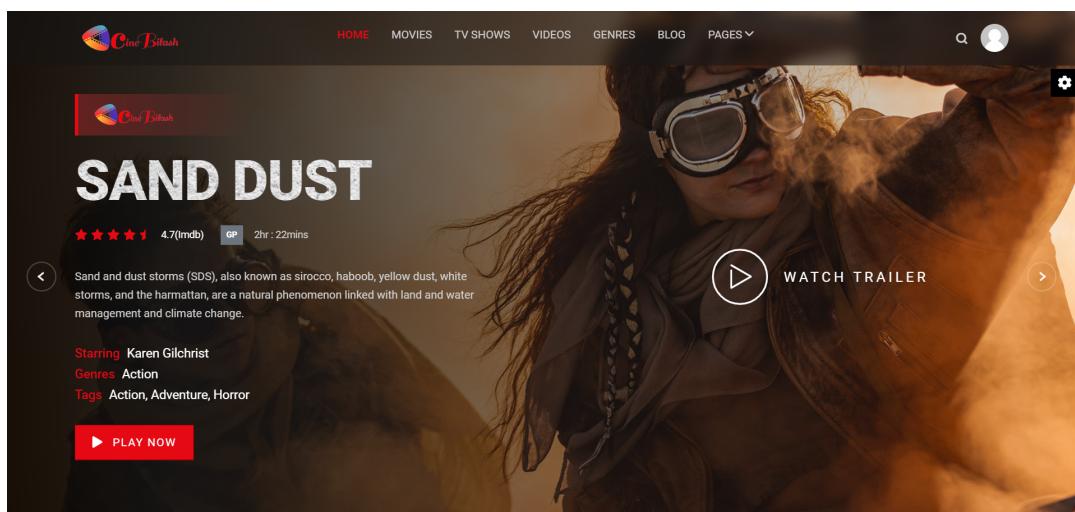


Figure 4.3: Home Page front end

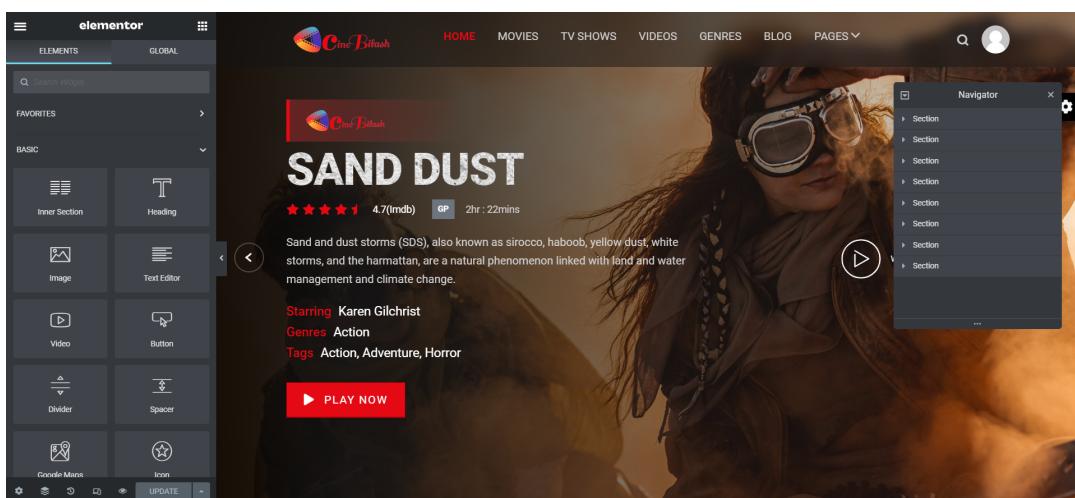


Figure 4.4: Home Page back end

4.3 User Account

In this section a user can find out his details along with subscription plan, status, edit profile, payments,logout etc.

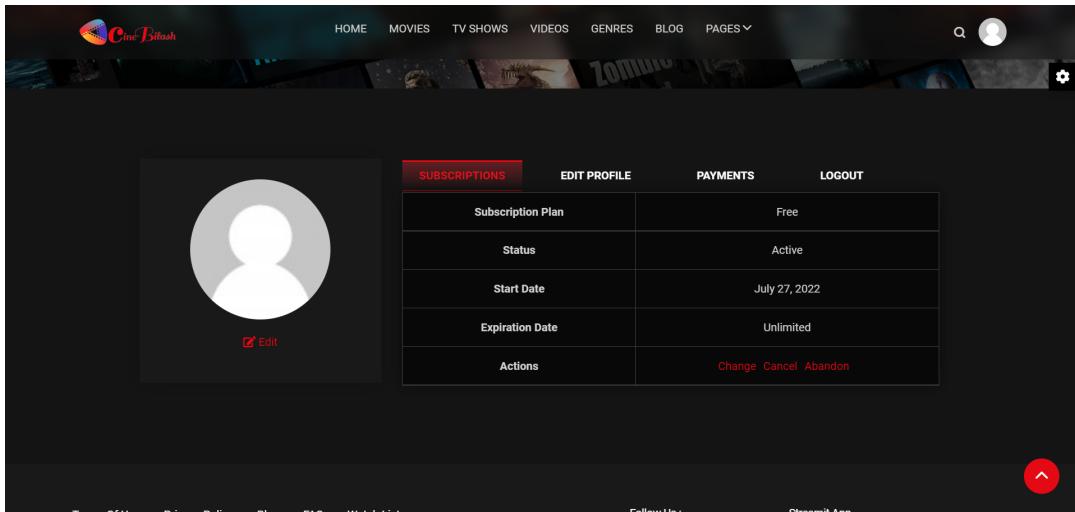


Figure 4.5: Accounts Page front end

Username	Name	Email	Role	Posts
premvai	—	johancruso@gmail.com	Administrator	38
rasu	—	khanshahtaz01@gmail.com	Administrator	0

Figure 4.6: Accounts Page back end

4.4 Registration

In this section a user can register through a valid email address and creating new password. Also they will find three option Free, Basic & Premium. They can choose any of these.

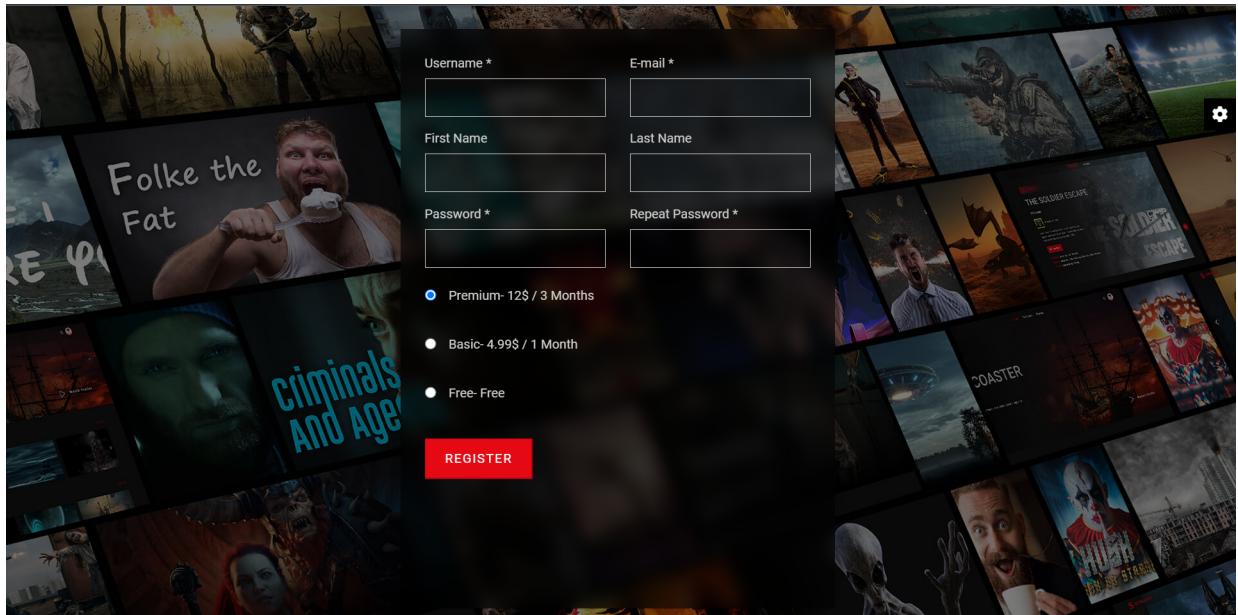


Figure 4.7: Registration Page front end

ID	Title	Views	Price	Status	Date
8269	Premium		12\$ / 3 Months	Active	Last Modified 2020/12/29 at 2:40 pm
8267	— Basic		4.99\$ / 1 Month	Active	Last Modified 2020/12/29 at 2:34 pm
8249	— — Free		Free	Active	Last Modified 2020/12/29 at 1:46 pm

Figure 4.8: Registration Page back end

4.5 Genre

Genre means Categories where you will find from action to romantic to adventure movies and so on.

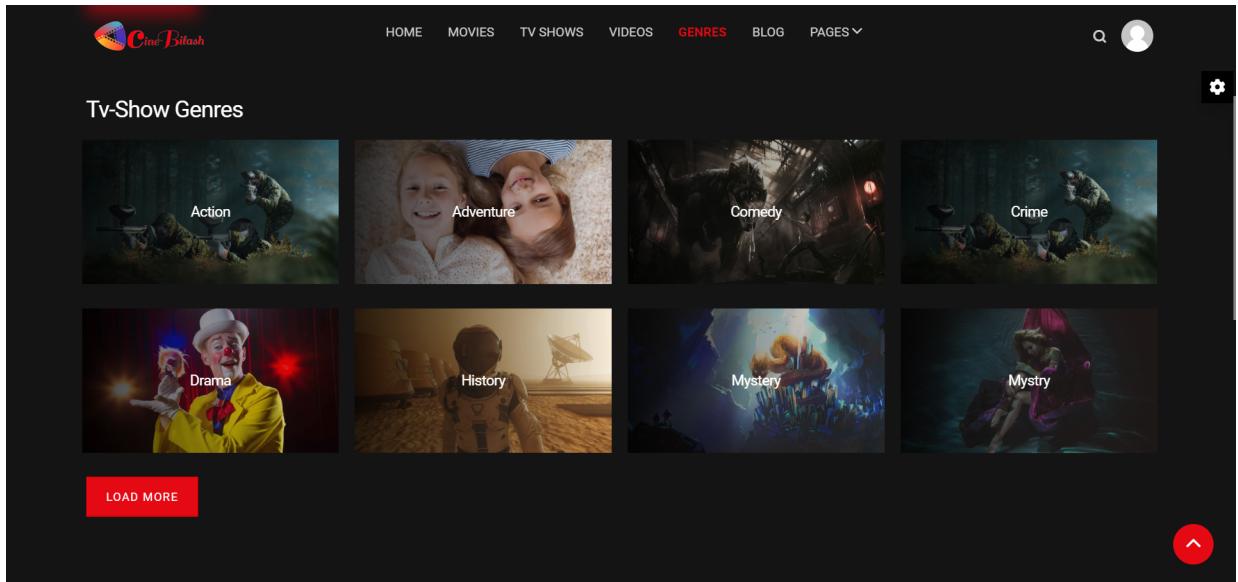


Figure 4.9: Genre Page front end

ID	Title	Views	Price	Status	Date
8269	Premium		12\$ / 3 Months	Active	Last Modified 2020/12/29 at 2:40 pm
8267	Basic		4.99\$ / 1 Month	Active	Last Modified 2020/12/29 at 2:34 pm
8249	Free		Free	Active	Last Modified 2020/12/29 at 1:46 pm

Figure 4.10: Genre Page back end

4.6 Blog

A blog (a shortened version of “weblog”) is an online journal or informational website displaying information in reverse chronological order, with the latest posts appearing first, at the top. In our system we also add blog where user will find latest post regarding movies, tv series and so on.

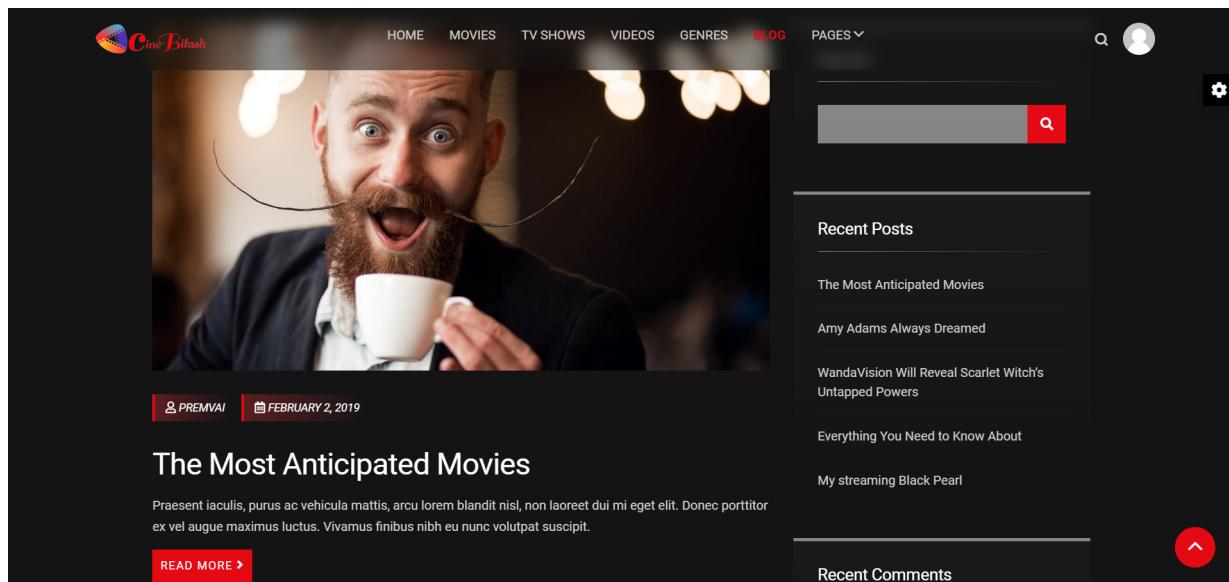


Figure 4.11: Blog Page front end

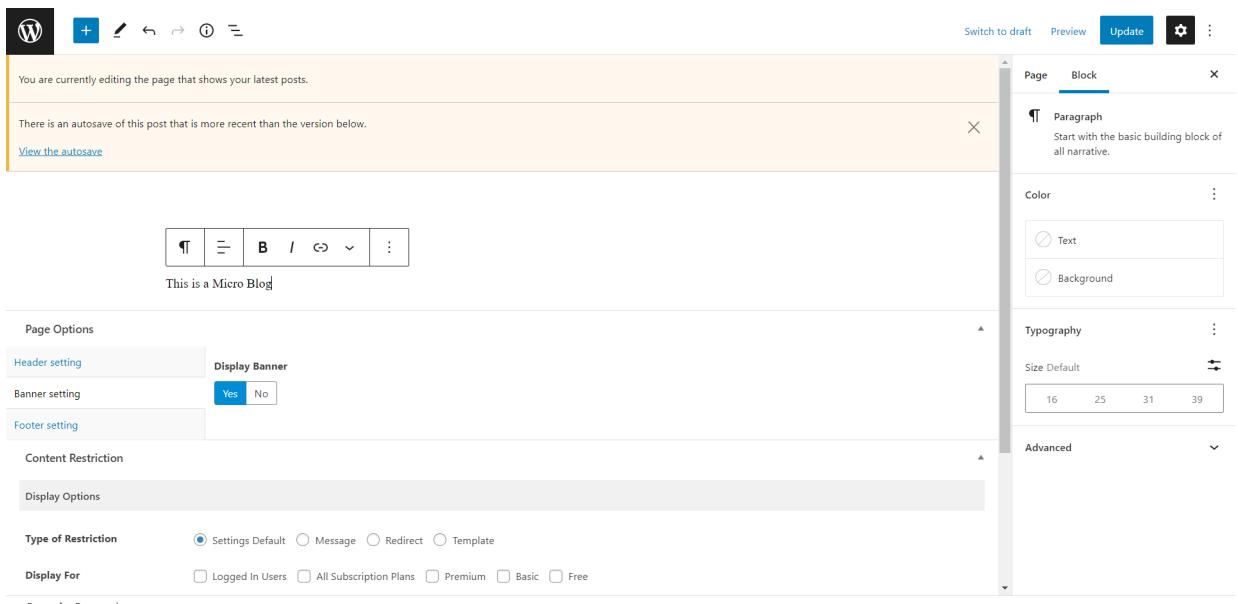


Figure 4.12: Blog Page back end

4.7 Videos

In this section you will find all popular videos, special & latest videos and recommended videos.

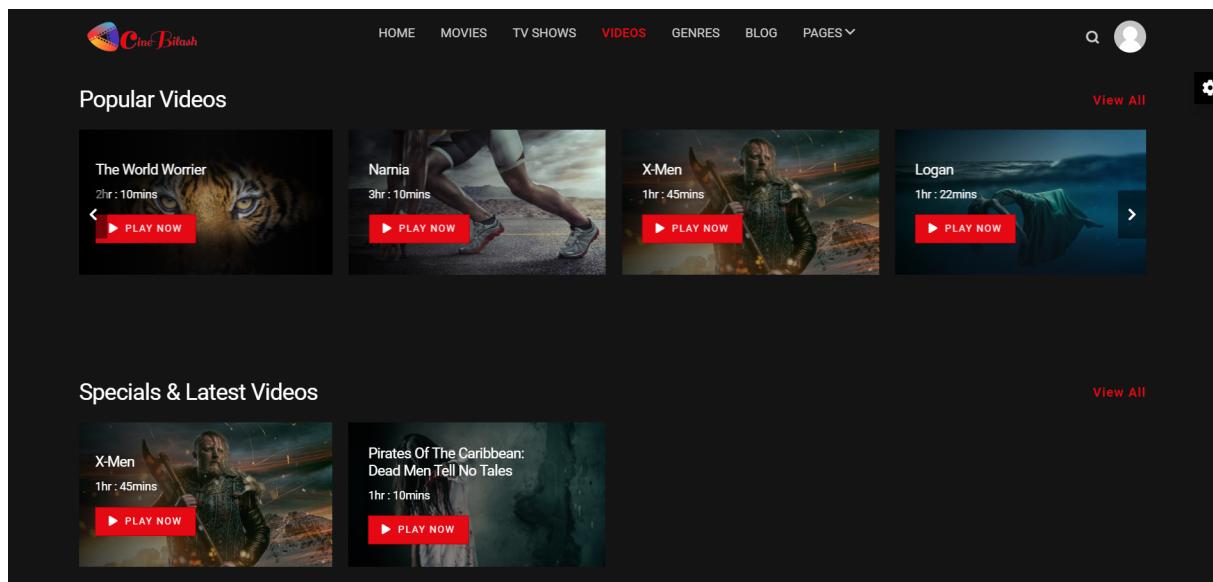


Figure 4.13: video Page front end

The screenshot shows a web-based video management interface. On the left, there's a sidebar with various options like 'Pages', 'Comments', 'TV Shows', and 'Videos'. The 'Videos' option is selected. The main area displays a table of five uploaded videos:

Image	Title	Author	Date	Views
	Logan	premvali	—	Published 2021/03/11 at 5:58 am 498 views
	X-Men	premvali	—	Published 2021/03/11 at 5:56 am 489 views
	Narnia	premvali	—	Published 2021/03/11 at 5:54 am 520 views
	The world worrier	premvali	—	Published 2021/03/11 at 5:50 am 429 views
	Pirates of the Caribbean: Dead Men Tell No Tales	premvali	—	Published 2021/03/11 at 5:16 am 253 views

Figure 4.14: Video Page back end

4.8 Database

phpMyAdmin is a widely used tool among web developers and database administrators, as it provides an intuitive way to manage databases without having to use the command-line interface. In this section you will see our database part

The screenshot shows the phpMyAdmin interface with a list of tables under the 'Structure' tab. The tables listed are:

Action	Rows	Type	Collation
Browse Structure Search Insert Empty Drop	9	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	6	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	10	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	8	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	8	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	259	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	7	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	7	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	4	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	4	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	10,734	MyISAM	utf8mb4_unicode_ci
Browse Structure Search Insert Empty Drop	734	MyISAM	utf8mb4_unicode_ci

Figure 4.15: Database

<input type="checkbox"/> wpn6_streamit_postview	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	113	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_termmeta	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	67	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_terms	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	179	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_term_relationships	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	662	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_term_taxonomy	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	179	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_ultimate	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	3	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_ultimate_activities	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	0	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_ultimate_comments	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	0	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_ultimate_forums	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	0	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_ultimate_meta	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	171	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_usermeta	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	141	MyISAM	utf8mb4_unicode_ci
<input type="checkbox"/> wpn6_users	<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Empty"/> <input type="button" value="Drop"/>	8	MyISAM	utf8mb4_unicode_ci
24 tables	<input type="button" value="Sum"/>		13,297	MyISAM utf8mb4_unicode_ci

Figure 4.16: Database

Server: sql102.byethost.com » Database: lblog_31069141_446 » Table: wpn6_users									
<input type="button" value="Browse"/> <input type="button" value="Structure"/> <input type="button" value="SQL"/> <input type="button" value="Search"/> <input type="button" value="Insert"/> <input type="button" value="Export"/> <input type="button" value="Import"/> <input type="button" value="Operations"/> <input type="button" value="Triggers"/>									
✓ Showing rows 0 - 7 (8 total, Query took 0.0005 seconds.)									
SELECT * FROM `wpn6_users`									
<input type="checkbox"/> Profiling <input type="checkbox"/> [Edit inline] <input type="checkbox"/> [Edit] <input type="checkbox"/> [Explain SQL] <input type="checkbox"/> [Create]									
<input type="checkbox"/> Show all Number of rows: 25 <input type="button" value="Filter rows: Search this table"/> Sort by key: <input type="button" value="None"/>									
+ Options <input type="button" value="Edit"/> <input type="button" value="Copy"/> <input type="button" value="Delete"/>									
<input type="checkbox"/> <input type="button" value="Edit"/> <input type="button" value="Copy"/> <input type="button" value="Delete"/> 1 premvai \$P\$BsIvv0esh.w90ojUJBnSdXyQ221 premvai johancrusso@gmail.com https://prem.liveblog365.com 2022-07-27 16:48:47									
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Figure 4.17: Database

Chapter 5

Conclusion

5.1 Advantage of our system

Why a user choose our site? Of course, we need to give them some extra benefits which encourage users to come and use our site. Some of our advantages -

- Trailer Preview before registration
- 24/7 customer service
- Low cost subscription
- Higher quality video streaming
- Less buffering
- Top reviews by the users (movies , web-series & drama categories) available
- Category wise movie, web-series etc. available

5.2 Limitations

We are still trying to improve our system day by day by overcoming our limitations. Though the online streaming platform market is upgrading day by day and users expectations also reaching higher level along with it. There are some limitations in our project also those are -

- Only one server available
- Part of the video will be available before subscription could not be implemented
- Mobile banking

5.3 Future work

It's not the end. We will update this site in future also. Some of the future work -

- Payment Through card
- More movies will be add
- Multi-language based movies, web-series & drama will be add soon
- Mobile app will be launched very soon

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