

COMMFLIX STREAMING

A COMMUNITY BASED MOVIE STREAMING

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1.1 Introduction:

CommFlix is a dynamic movie streaming site designed for a seamless and interactive user experience. The platform combines robust features, user-friendly navigation, and a responsive design to create an engaging space for movie enthusiasts. The project encompasses a range of functionalities, including secure user authentication, comprehensive movie listings, and a feature-rich dashboard for both administrators and users.

1.2 Objective:

The primary objective of CommFlix is to provide users with a community, captivating movie streaming experience, coupled with robust user management features for administrators. The project seeks to achieve the following key goals:

- 1. User-Centric Experience:** Create a user-friendly interface that allows users to easily navigate, search, and play movies while enjoying personalized features.
- 2. Effective User Management:** Implement a comprehensive user management system, empowering administrators to efficiently control user levels, account states, and promotions.
- 3. Dynamic Content Handling:** Enable the dynamic management of movie files and covers, allowing users to interact with different upload types, switch between dark and light themes, and engage in comments and chats with emojis.
- 4. Responsive Design:** Develop a responsive design that caters to both mobile and computer users, ensuring accessibility and a consistent experience across devices.

NOTE: The design of css, html is old on purpose.

1.3 Outcome:

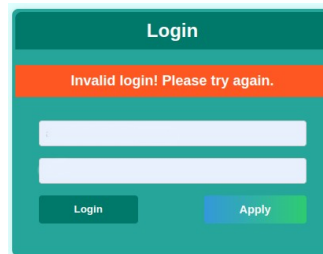
CommFlix is expected to deliver the following outcomes:

- 1. Engaging User Experience:** Users will have access to a visually appealing and user-friendly interface, enhancing their overall movie streaming experience.
- 2. Efficient Administration:** Administrators will benefit from powerful tools for managing users, movies, and categories, streamlining administrative tasks.
- 3. Interactive Features:** The addition of dark and light theme options, along with comments and chat functionalities, will foster a sense of community and engagement among users.
- 4. Personalization:** Users will enjoy a personalized experience through features such as profile pages, recommendation notifications, and a global chat platform.
- 5. Reliability and Security:** The project aims to establish a reliable and secure platform, ensuring data integrity, user privacy, and protection against unauthorized access.

2.1 Login:

2.1.1 Handling disabled/banned accounts, incorrect passwords, and emails:

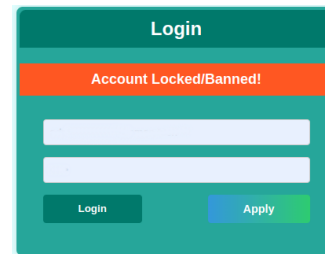
The login feature ensures a secure user authentication process. It effectively manages disabled or banned accounts, providing appropriate error messages. Additionally, it handles cases of incorrect passwords and email entries, enhancing the overall security of user accounts.



Login

Invalid login! Please try again.

Login Apply



Login

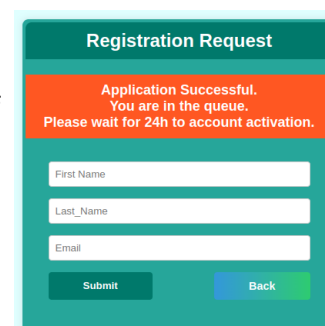
Account Locked/Banned!

Login Apply

2.2 Register:

2.2.1 Sending registration details via email:

Upon successful registration, users receive an email containing essential registration details. This enhances user experience by providing a confirmation of their registration and ensuring they have the necessary information for future access. By default the user account will be disabled for admin approval.



Registration Request

Application Successful.
You are in the queue.
Please wait for 24h to account activation.

First Name

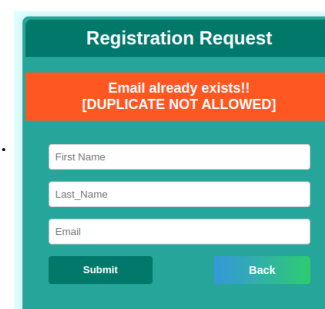
Last Name

Email

Submit Back

2.2.2 Detecting duplicate emails during registration:

The registration process includes a mechanism to identify and prevent duplicate email entries. This helps maintain a clean and unique user database, preventing potential issues associated with multiple accounts using the same email address.



Registration Request

Email already exists!!
[DUPLICATE NOT ALLOWED]

First Name

Last Name

Email

Submit Back

2.3 Home:

2.3.1 Showcasing upcoming movies:

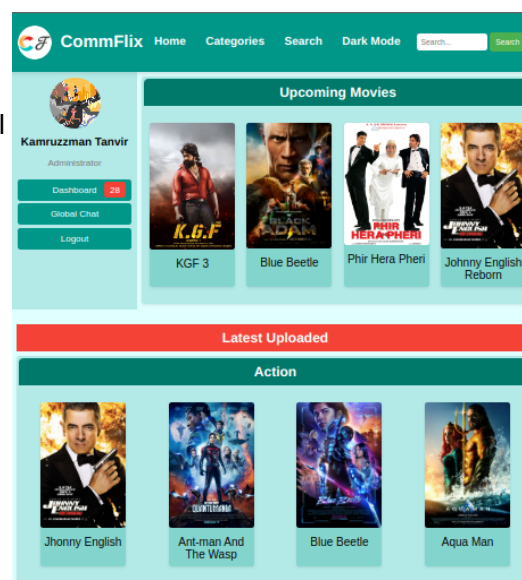
The home page features a dedicated section for upcoming movies, offering users a glimpse into the exciting content that will be available in the near future.

2.3.2 Presenting the latest movies from each genre:

Users can explore the latest releases from various genres, providing a diverse selection that caters to different preferences.

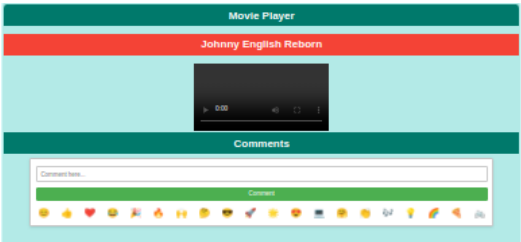
2.3.3 Enabling search by title and genre:

The search functionality allows users to easily find movies based on titles and genres, enhancing the overall accessibility of the platform.



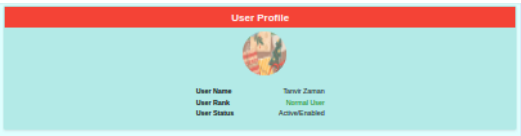
2.3.4 Allowing movie playback:

Users can seamlessly play movies directly from the home page, creating a convenient and user-friendly streaming experience.



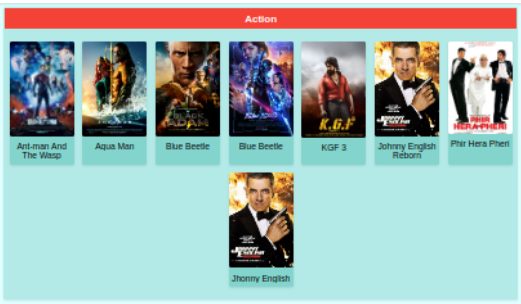
2.3.5 Including user profiles:

User profiles are integrated into the home page, allowing users to personalize their experience and track their activities on the platform.



2.3.6 Offering dedicated category pages:

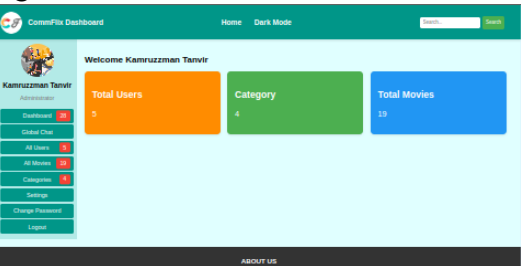
Dedicated pages for each category streamline content discovery, making it easy for users to explore movies based on their interests.



2.4 Dashboard:

2.4.1 Providing total statistics for movies, users, and categories:

The dashboard offers comprehensive statistics, providing administrators with insights into the overall performance of the platform, including the number of movies, users, and categories.



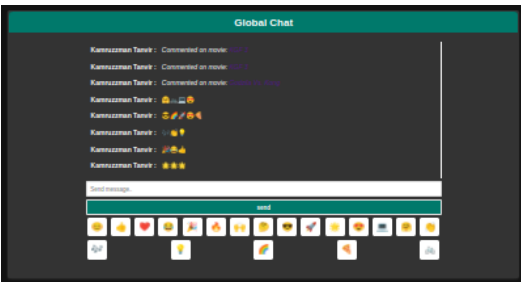
2.4.2 Admin functions: resetting user passwords and changing own/admin passwords:

Administrators have the ability to reset user passwords, ensuring a secure and efficient password management process. They can also change their own or other administrators' passwords for enhanced security.



2.4.3 Featuring global chat:

The global chat feature facilitates communication among users, fostering a sense of community and allowing for real-time interactions. Only the admin has the authority to clear old 5 msg per click.



2.4.4 Implementing user levels: administrator, admin, normal user:

Users are categorized into different levels, each with specific permissions. This hierarchical structure ensures proper access control and management.

Administrator: top of all users or can say system user.

Admin: Mostly has some common authority over users and can work on contents.

Normal User: Members of the site.

2.5 User Level:

2.5.1 Three ranks: administrator, admin, normal user:

The user level system includes three distinct ranks, each with its own set of privileges. This tiered approach allows for flexible user management.

User Name	Email	Role	Status	Edit	Delete	Reset
Kamruzzaman Taniar		Administrator	Active	Edit	Delete	Reset
Taniar Zaman		Admin	Inactive	Edit	Delete	Reset
Taniar Zaman		User	Active	Edit	Delete	Reset
Taniar Zaman		User	Inactive	Edit	Delete	Reset

2.5.2 Two account states: active or disabled:

User accounts can be in one of two states: active or disabled.

This feature provides administrators with the ability to control user access based on account status.

2.5.3 Managing user-related functions:

Administrators have the authority to manage user-related functions, including promotions and demotions, ensuring effective user management.

2.6 Movies:

2.6.1 Allowing users to view detailed movie information:

Users can access comprehensive details about each movie, including information about the uploader, creation date, and more, enhancing the transparency of content on the platform.

Movie Name	Genre	User	Status	Created	Updated	Edit	Delete
3 Idiots	Comedy	Kamruzzaman Taniar	published	2023-10-19 10:30:27	2023-10-19 12:55:12	Edit	Delete
Avengers: End Game	Action	Kamruzzaman Taniar	published	2023-10-19 10:37:48	2023-10-20 18:30:55	Edit	Delete
Avengers: Infinity War	Action	Kamruzzaman Taniar	published	2023-10-19 10:38:10	2023-10-19 10:38:10	Edit	Delete
Avengers: End Game	Sci-Fi	Kamruzzaman Taniar	published	2023-10-19 10:38:45	2023-10-19 10:38:45	Edit	Delete
Avengers: Infinity War	Sci-Fi	Kamruzzaman Taniar	published	2023-10-19 10:39:03	2023-10-19 10:39:03	Edit	Delete
Batman Vs Super Men	Sci-Fi	Kamruzzaman Taniar	published	2023-10-19 10:39:47	2023-10-19 10:39:47	Edit	Delete
Black Widow	Sci-Fi	Kamruzzaman Taniar	published	2023-10-19 10:40:06	2023-10-19 10:40:06	Edit	Delete
Black Adam	Sci-Fi	Kamruzzaman Taniar	published	2023-10-19 10:40:24	2023-10-19 10:40:24	Edit	Delete

2.6.2 Three upload types: Published, Upcoming, Archived:

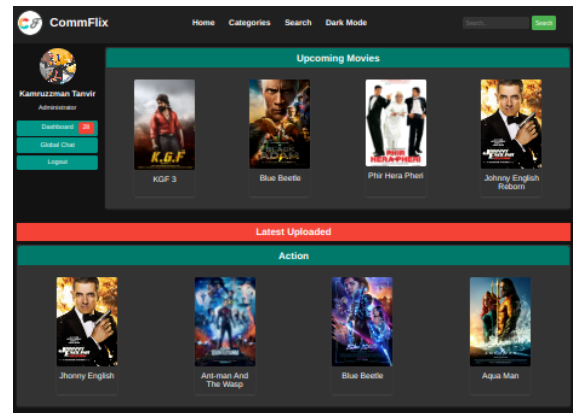
The platform supports three types of movie uploads, categorizing content into Published, Upcoming, and Archived sections based on its status.

2.6.3 Dynamically managing movie files and covers:

The system dynamically manages movie files and covers, allowing users to update both or either, providing flexibility and customization options.

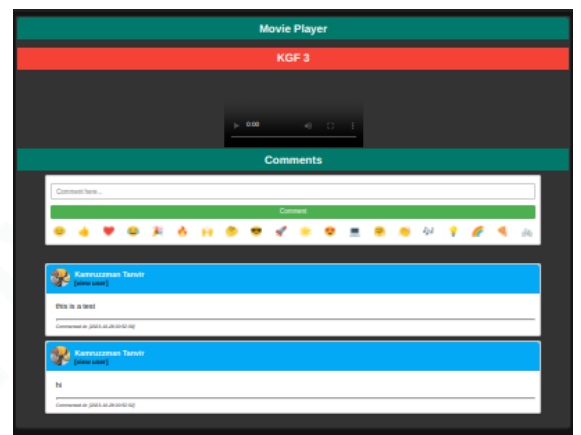
2.6.4 Dark and light theme switch:

Users have the option to switch between dark and light themes, catering to individual preferences and creating a personalized viewing experience.



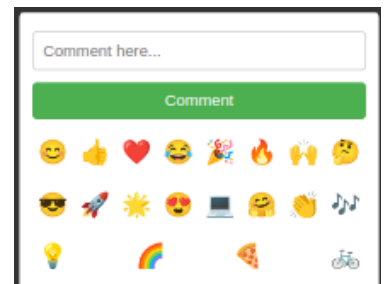
2.6.5 Comments section on each movie streaming page:

Each movie streaming page features a comments section, allowing users to share their thoughts, feedback, and engage in discussions about the content.



2.6.6 Chat and comment feature with emojis:

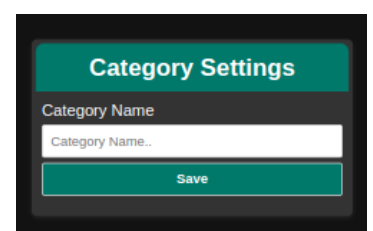
Users can communicate with emojis in both chat and comments, adding a fun and expressive element to interactions on the platform.



2.7 Categories:

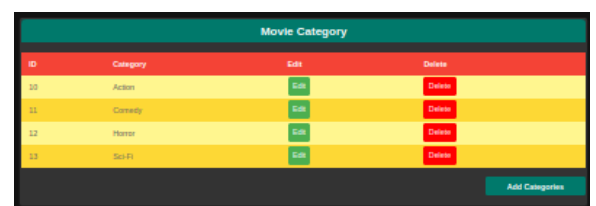
2.7.1 Allowing dynamically add categories:

Admins have the ability to contribute to the platform by adding new categories, enhancing the diversity of available content.



2.7.2 Admins controlling category management:

Administrators maintain control over category management, ensuring the platform's organizational structure aligns with its objectives.



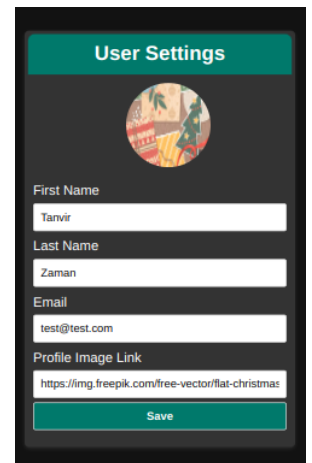
2.8 Settings:

2.8.1 Users updating names and profile pictures:


Users can personalize their profiles by updating their names and profile pictures, adding a layer of individuality to their accounts.

2.8.2 Admins controlling email changes:

To maintain security, only administrators have the authority to change email addresses, ensuring proper oversight of sensitive account information.



User Settings



First Name

Last Name

Email

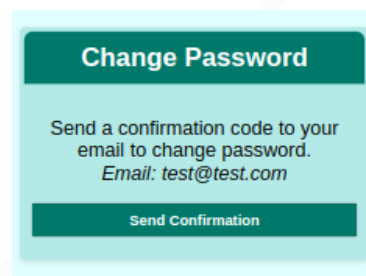
Profile Image Link

Save

2.9 Change Password:

2.9.1 Users changing passwords with email confirmation:

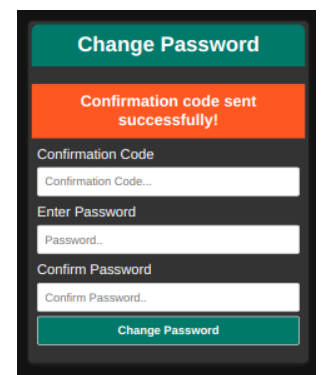
Users can securely change their passwords by generating email confirmation codes, adding an extra layer of authentication.



Change Password

Send a confirmation code to your email to change password.
 Email: test@test.com

Send Confirmation



Change Password

Confirmation code sent successfully!

Confirmation Code

Enter Password

Confirm Password

Change Password

2.10 Email Notifications:

2.10.1 Sent on account registration, rank change, account state change, and password reset:

Users receive email notifications for key events such as registration, changes in rank, changes in account status, and password resets, keeping them informed about their account activities.



User Registration Successfull Inbox x

KZT Super Stream <kztanvirwebtest@gmail.com>
 to me ▾

Username : Tanvir Zaman

Password: oLioU1vlZOmKYIZ6uEzA

Note: Please wait for the admin to approve to log in. (Status: Disabled)

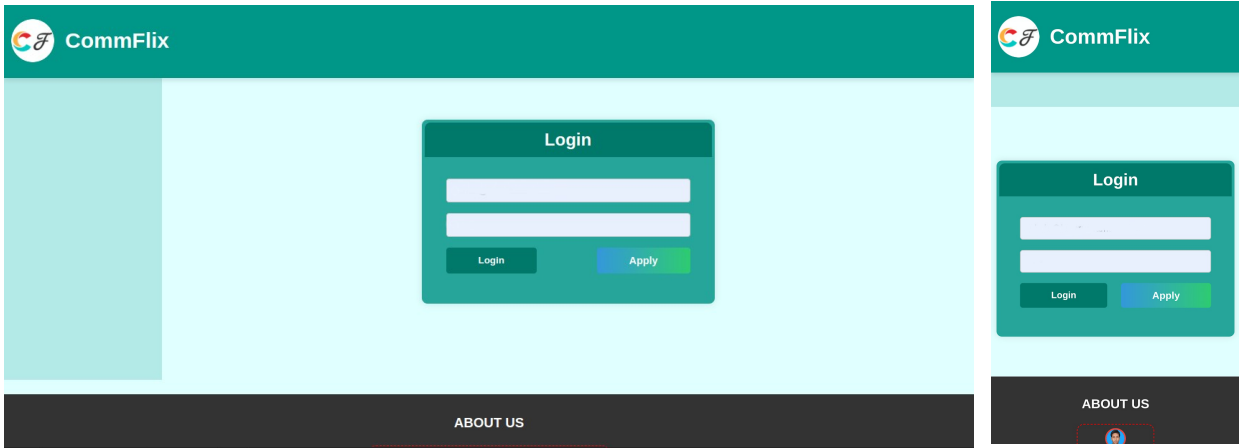
↩ Reply

➡ Forward

2.11 Others:

2.11.1 Responsive design for both mobile and computer:

The platform is designed to be responsive, ensuring a seamless user experience across various devices, including both mobile and computer.

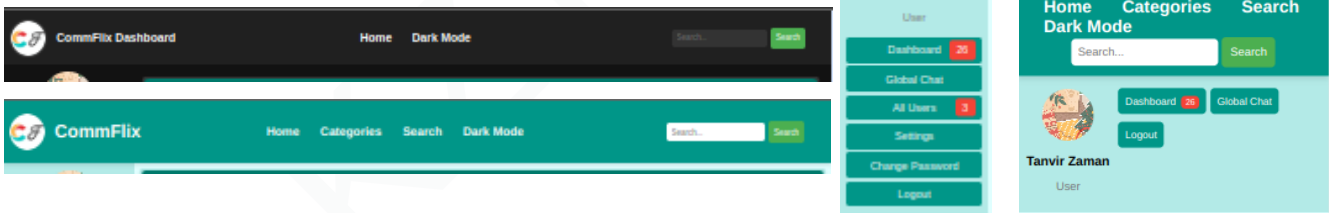


2.11.2 Pure design without external frameworks:

The design is built from scratch without reliance on external frameworks, providing a unique and customized visual identity.

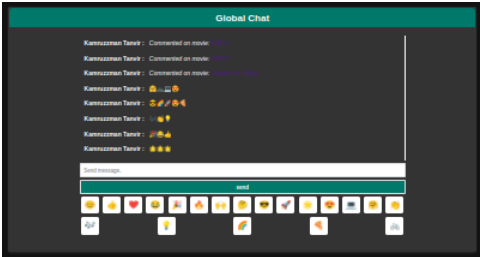
2.11.3 Header, Navbar, Footer for easy navigation:

Clear navigation elements such as the header, navbar, and footer contribute to an intuitive and user-friendly browsing experience.



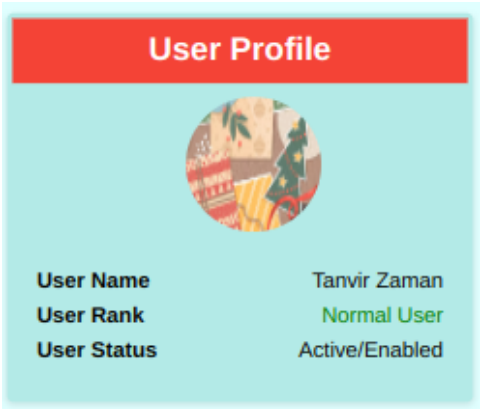
2.11.4 Global chat and suggestions:

The global chat feature allows users to engage in discussions and share movie suggestions, fostering a sense of community and user engagement.



2.11.5 Profile pages with promotion emails:

Profile pages provide users with a space to showcase their activities and preferences, and promotion emails are sent to notify users of rank advancements, adding a personalized touch to the user experience.



3.1 Administrator/Admins managing user levels, account states, and promotions:

Administrators, or admins, are tasked with overseeing and controlling user-related aspects. This includes managing user levels, toggling account states (active or disabled), and promoting users to different ranks. Admins can manually create user accounts and force-reset user passwords, with the reset password being sent exclusively to the user's email.

While administrators have unrestricted access to manage users, there are limitations in place. One admin cannot edit, delete, or reset the password of another admin. Additionally, admins can only create normal user accounts, whereas System Administrators have the authority to create any type or role of user. Admins lack the ability to promote users but retain the capability to delete or edit other non-admin user accounts.

3.2 Email notifications for significant user actions:

Email notifications are strategically employed to keep users informed about important account activities, such as changes in rank, alterations in account status, and password resets. This ensures transparency and user awareness.

On creation of a new account, an email will be sent to both user and system admin.

4.1 PHP for server-side logic:

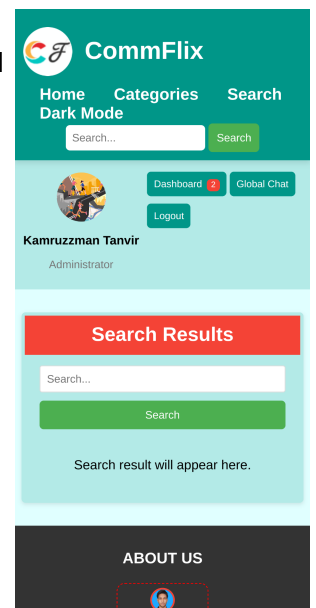
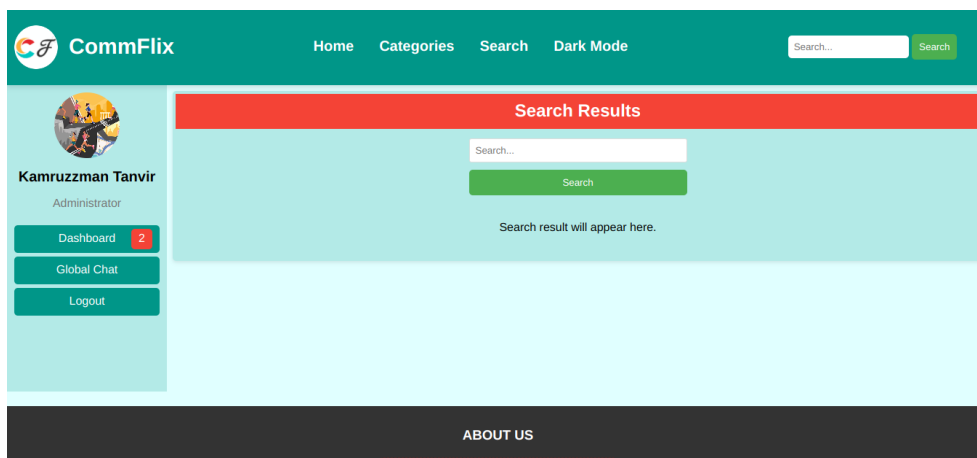
The server-side logic is implemented using PHP, a versatile scripting language well-suited for web development. It facilitates the handling of dynamic content, user interactions, and server-side processes.

4.2 PHP Mailer class for email functionality:

The PHP Mailer class is utilized for efficient and reliable email functionality. It enables the sending of registration details, notifications, and confirmation emails, contributing to a streamlined communication process.

4.3 Responsive design for both mobile and computer:

The platform prioritizes a responsive design, ensuring a seamless and visually appealing user experience across various devices, including both mobile phones and computers. This adaptability enhances accessibility and user satisfaction. Also discussed in 2.11.1



The UML Diagram of the whole project is given below:
left to right direction

@startuml

actor User as "User"
actor Admin as "Admin"
actor Administrator as "Administrator"

rectangle CommFlix {
 usecase "Login" as UC1
 usecase "Register" as UC2
 usecase "Browse Movies" as UC3
 usecase "Play Movie" as UC4
 usecase "View Profile" as UC5
 usecase "Manage Users" as UC6
 usecase "Manage Categories" as UC7
 usecase "Manage Movies" as UC8
 usecase "Change Password" as UC9
 usecase "Toggle Theme" as UC10
 usecase "Comment on Movie" as UC11
 usecase "Global Chat" as UC12
 usecase "Reset User Password" as UC13
 usecase "Reset Admin Password" as UC14
 usecase "Receive Email Notifications" as UC15
}

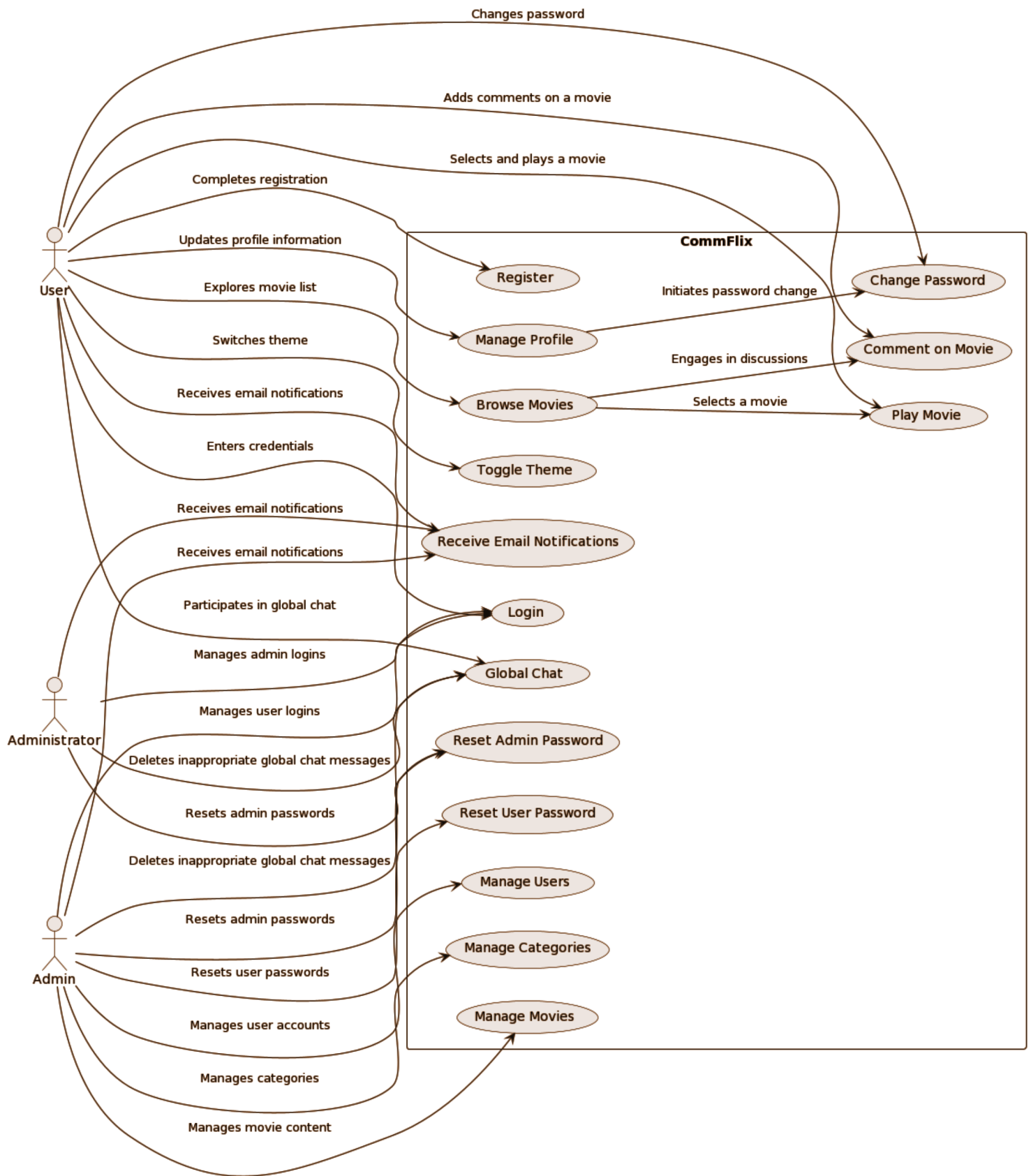
User --> UC1: "Enters credentials"
User --> UC2: "Completes registration"
User --> UC3: "Explores movie list"
User --> UC4: "Selects and plays a movie"
User --> UC5: "Views profiles of other users and admins"
User --> UC9: "Changes password"
User --> UC10: "Switches theme"
User --> UC11: "Adds comments on a movie"
User --> UC12: "Participates in global chat"
User --> UC15: "Receives email notifications"

Admin --> UC1: "Manages user logins"
Admin --> UC6: "Manages user accounts"
Admin --> UC7: "Manages categories"
Admin --> UC8: "Manages movie content"
Admin --> UC14: "Resets admin passwords"
Admin --> UC12: "Deletes inappropriate global chat messages"
Admin --> UC15: "Receives email notifications"

Administrator --> UC13: "Resets user passwords"

UC3 --> UC4: "Selects a movie"
UC5 --> UC9: "Initiates password change"
UC3 --> UC11: "Engages in discussions"

@enduml



Result:

CommFlix successfully delivers a feature-rich movie streaming platform with robust user management, dynamic content handling, and a responsive design. The implementation of diverse features such as user profiles, global chat, and dark/light theme options enhances user engagement and personalization. The system effectively addresses user needs, providing a seamless and secure streaming experience.

Conclusion:

In conclusion, CommFlix exemplifies a comprehensive approach to online movie streaming, showcasing a balance between user-friendly features and robust administrative controls. The project's success lies in its responsiveness, security measures, and the incorporation of interactive elements. With a solid foundation, CommFlix sets the stage for future improvements, ensuring continuous enhancement and optimization for an ever-improving user experience.

- *Implement more advanced search features.*
- *Enhance user interaction through personalized recommendations.*
- *Explore additional security measures.*
- *Continuous monitoring for performance optimization.*
- *Implementing payment methods.*
- *User invitation system.*
- *Movie review forum/feed.*
- *User inbox/mail/dm system.*
- *More optimized chat and comment section.*
- *User movie request system.*
- *More optimized and digital ui.*