Video Streamer

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1. Admin Panel

The admin panel manages all functionalities of the application. Admins can create, modify or remove the information of the website.Insights of application, Managing Videos, Categories are done using this admin panel.

1.1 Login

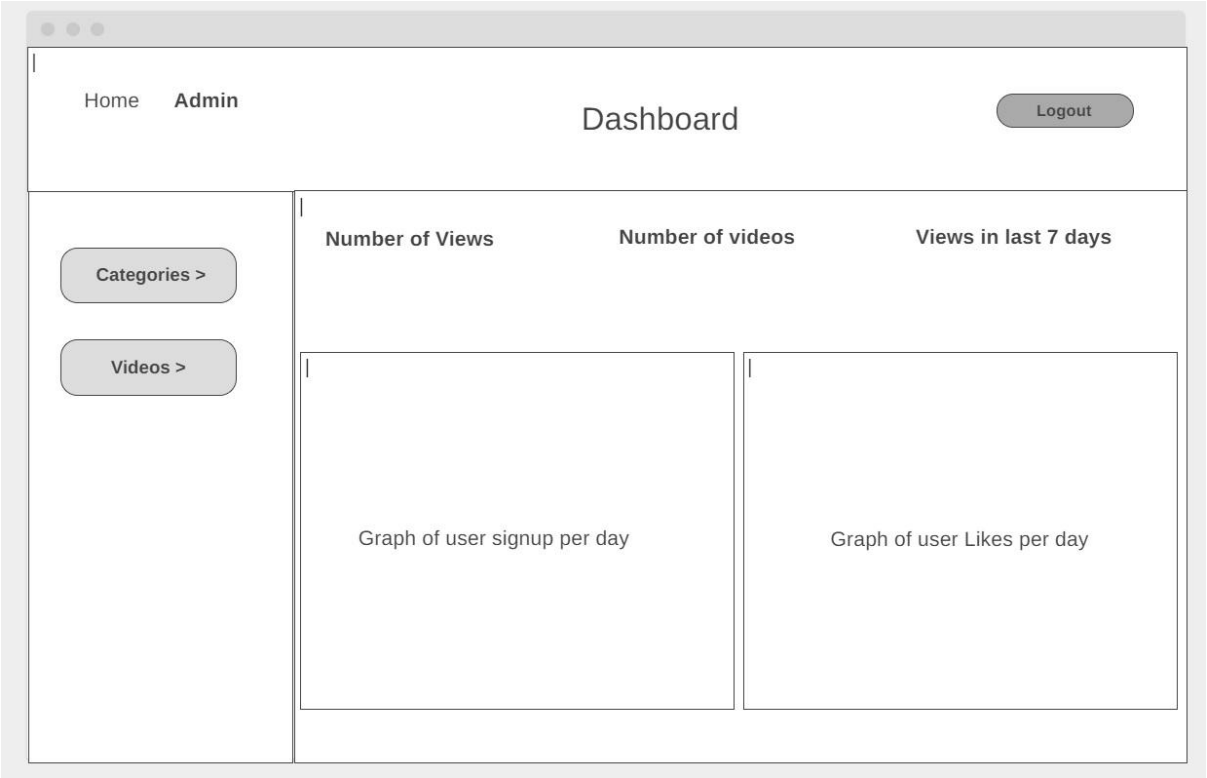
Backend users can login to the admin panel with their login details and view the details of the application.

1.1.1 Login Module

Users can log in to the admin panel with their login credentials. Based on the user role the login module enables permissions to each user.

1.2 Dashboard

The dashboard contains overall information about the application and usages. Admin can view the performance of the application via statistics and graphs.



1.2.1 Displaying number of views

Total number of views of all videos is displayed in the Dashboard panel to enhance the popularity of the website.

1.2.2 Displaying number of videos

Total number of videos available on the server is displayed in this Dashboard.

1.2.3 Displaying views in last 7 days

Total views count of all videos for a period of the last seven days is displayed in Dashboard to check the popularity of the website for the last seven days.

1.2.4 Graph of views and likes per day

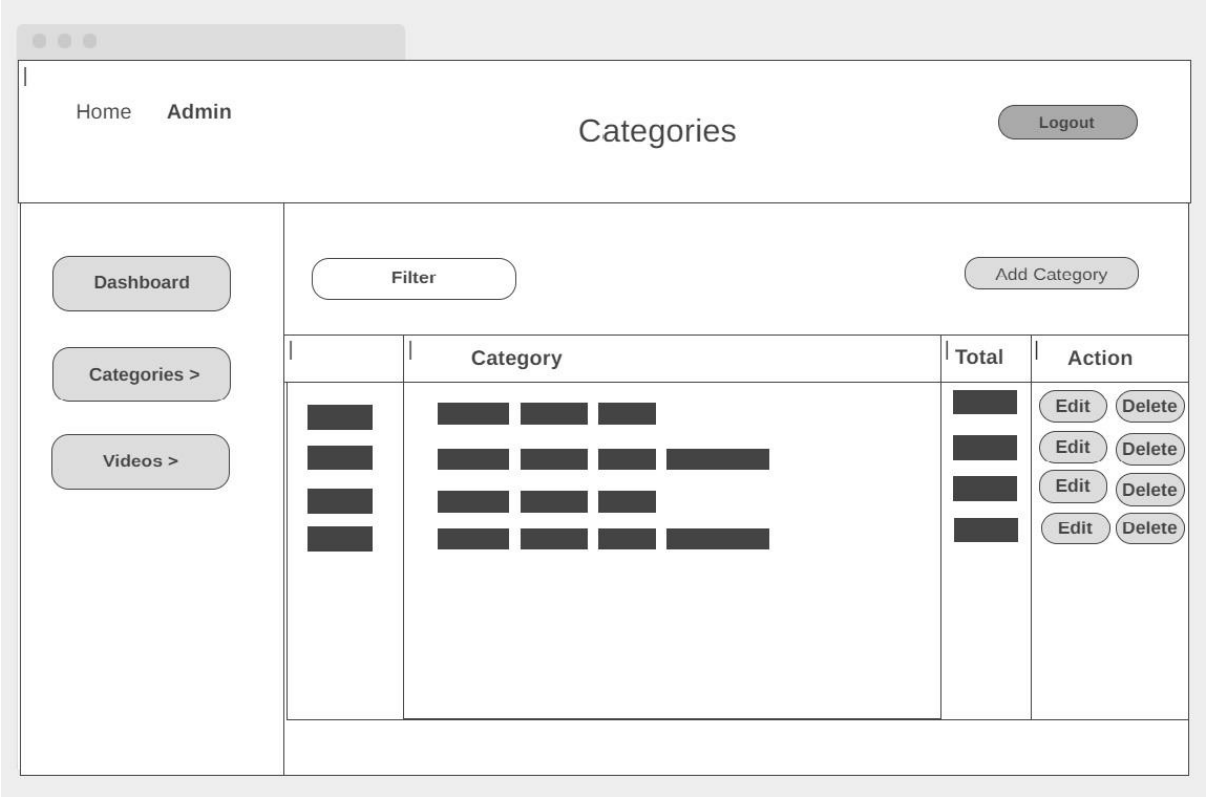
Graphical representation of both views and likes for all videos per day is displayed in Dashboard.

1.2.5 Graph of user signup per day

Graphical representation of the total number of new user signups per day is displayed in Dashboard.

1.3 Categories

Videos uploaded are categorized based on their category to enhance the user experience. Some of the categories are Animation, Interview, Technology, Tutorial, TV Shows, Vlogs, and All videos. Admin can create, edit, delete categories from this panel.



1.3.1 Listing all Categories

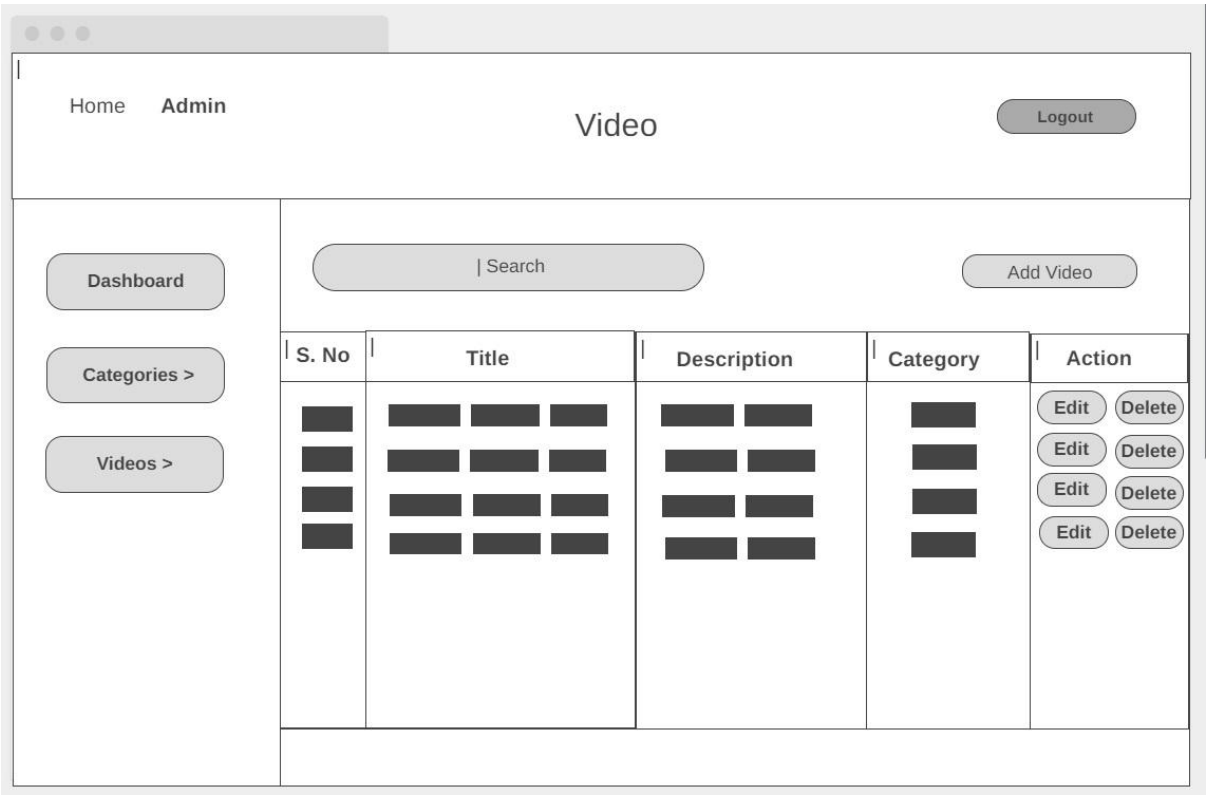
This section will have all the categories in the category panel. This will help the admin to see all categories available so that if admin wants to add a new category, then admin can check whether the category is already available in the Categories list.

1.3.2 Managing Categories

Admin can add new categories to the list, edit existing categories and can also delete an existing category.

1.4 Videos

Admin can add new videos, edit an existing video and also remove an existing by searching its id in the search bar which is available in this panel.

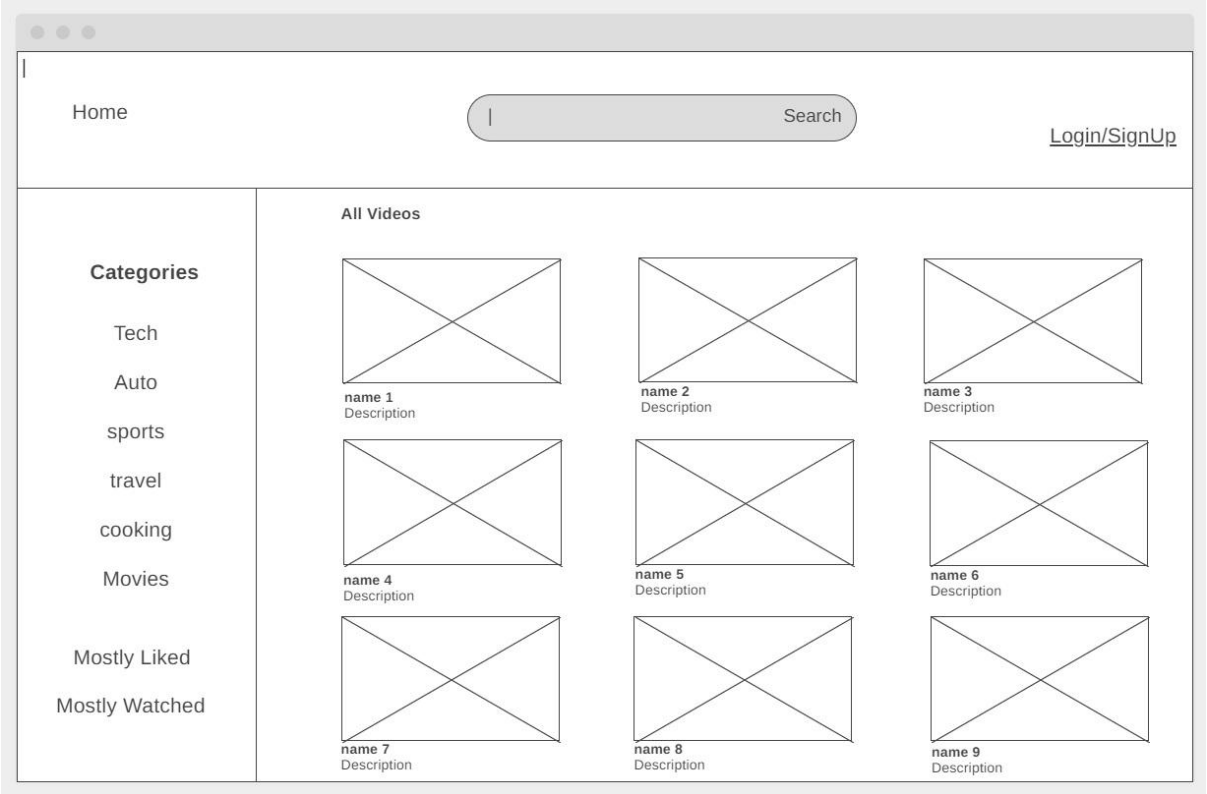


1.4.1 Managing Videos

Admin can search for a particular video by its ID and can edit the title, description or delete that video from the server.

2. User Interface (Home Page)

This is the Home Page. It includes various categories, videos, Login/Signup button and search bars. This page requires no login. Users can use this page as a guest user itself.



2.1 Search Bar

If any user wants to search for a particular video, then he/she can type the title of that particular video in the search bar and search for it. If no such video is available then it will return “No video available for this title”.

2.2 Videos

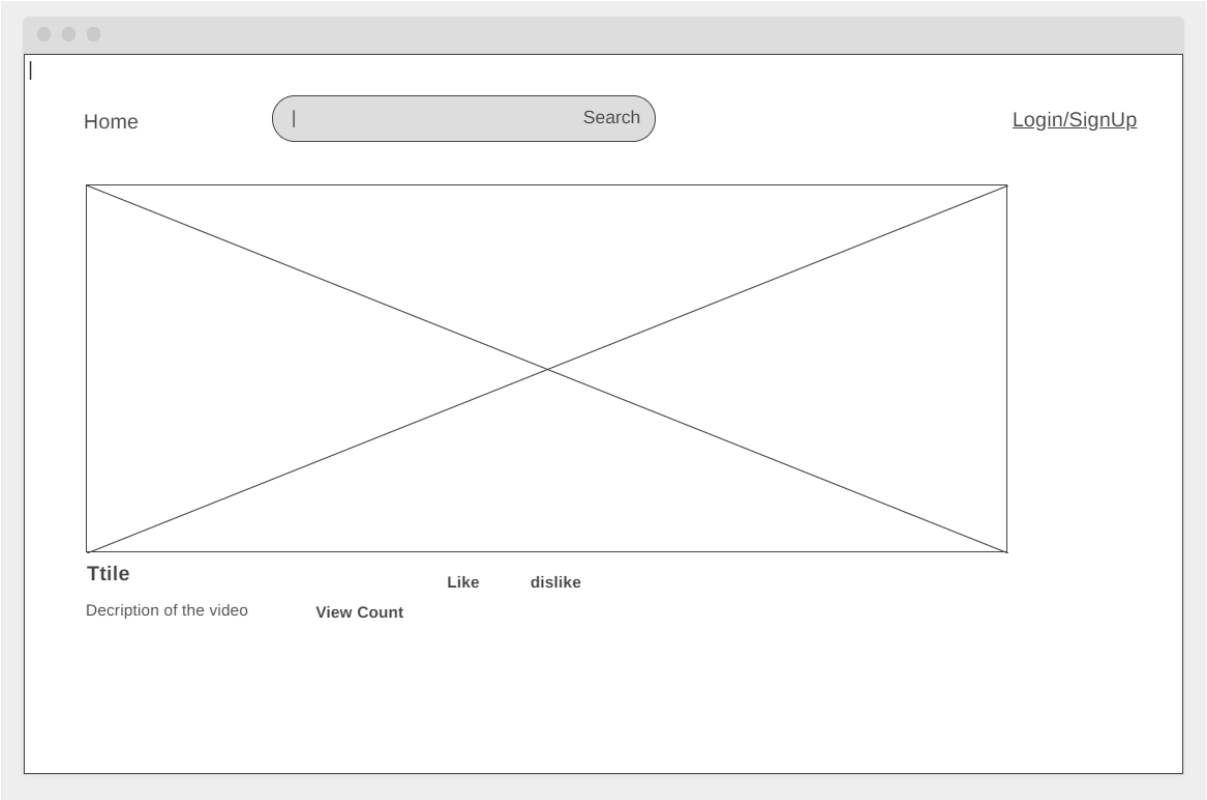
All Videos which are available are shown in this section. These videos are also categorized based on their category. These videos are displayed as a thumbnail and title of that video. If any user wants to open a particular video, then he/she can click that thumbnail and redirect to that detailed page.

2.2.1 Video Categories

Videos are categorized into various categories like Animations, Interview, Movies, Technology, Tutorials, TV Shows, and Vlogs. If the user wants to see all videos then the All Videos category is also added. If any user wants to see mostly liked or mostly viewed videos then he/she can click the respective category available in the left panel.

3. Detail View

Video streaming, Title of that video, Description, Views count , Like and Dislike count will be displayed on this page.



3.1 Video Streaming

Youtube embedded Video will be streamed on this page. Below the video, Title and Description of that video will be displayed.

3.2 Video Views Count

Even guest users can see the views count for a particular video. Views count will be incremented when a user goes to a detailed page of that particular video.

3.3 Like and Dislike feature

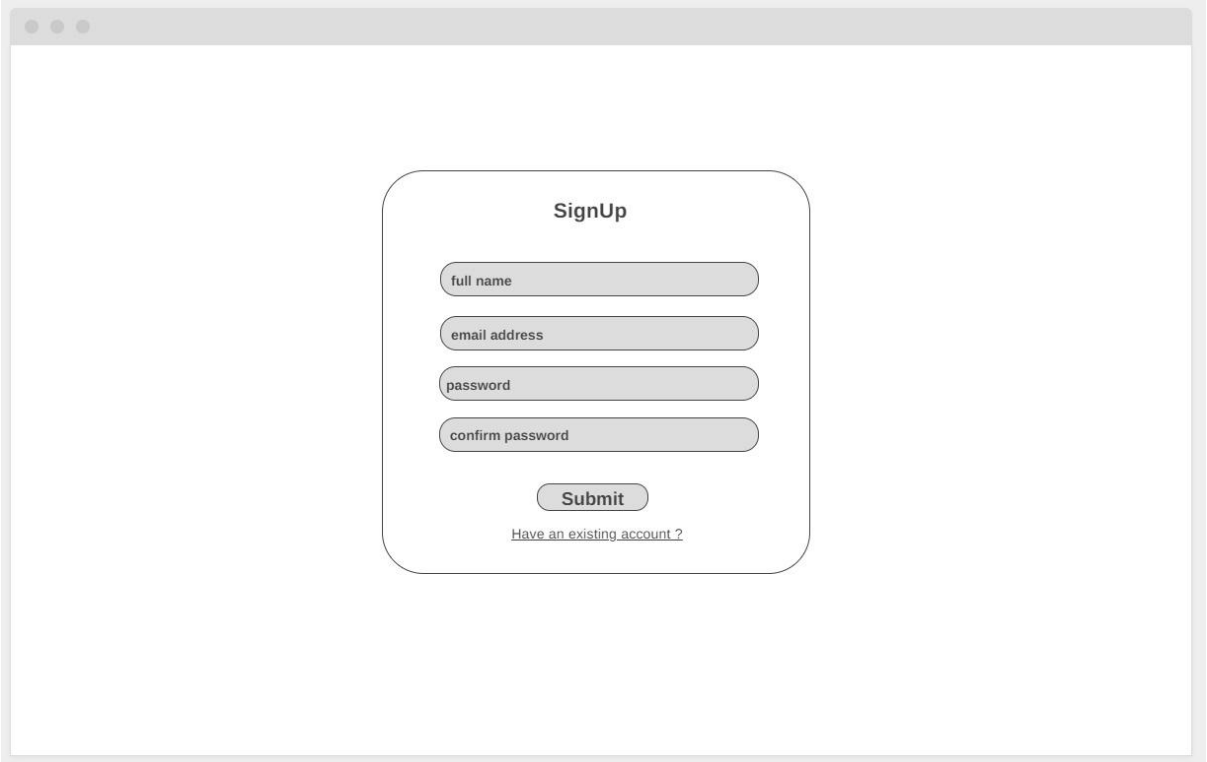
All users including guest users can see the Like count and Dislike count. But, If a user wants to like or dislike a video then the user should log in.

4. Login/Signup for website

User information is expected to be collected via a sign-up screen. Users can skip this login if they want to continue as a guest user.

4.1 Signup Credentials

Sign-up screen is used to collect user information of users including full name, email address, password, confirm password of the user. Users shall enter email, the system will check if the user exists with this email. If the user is not present then the signup screen is shown. When the user enters the correct details, it will take the user to the home screen.



4.1.1 User Data

User's data like Full Name, E-mail, and Password is collected for authenticating users and it will be stored in MongoDB database.

4.1.2 Validating Data

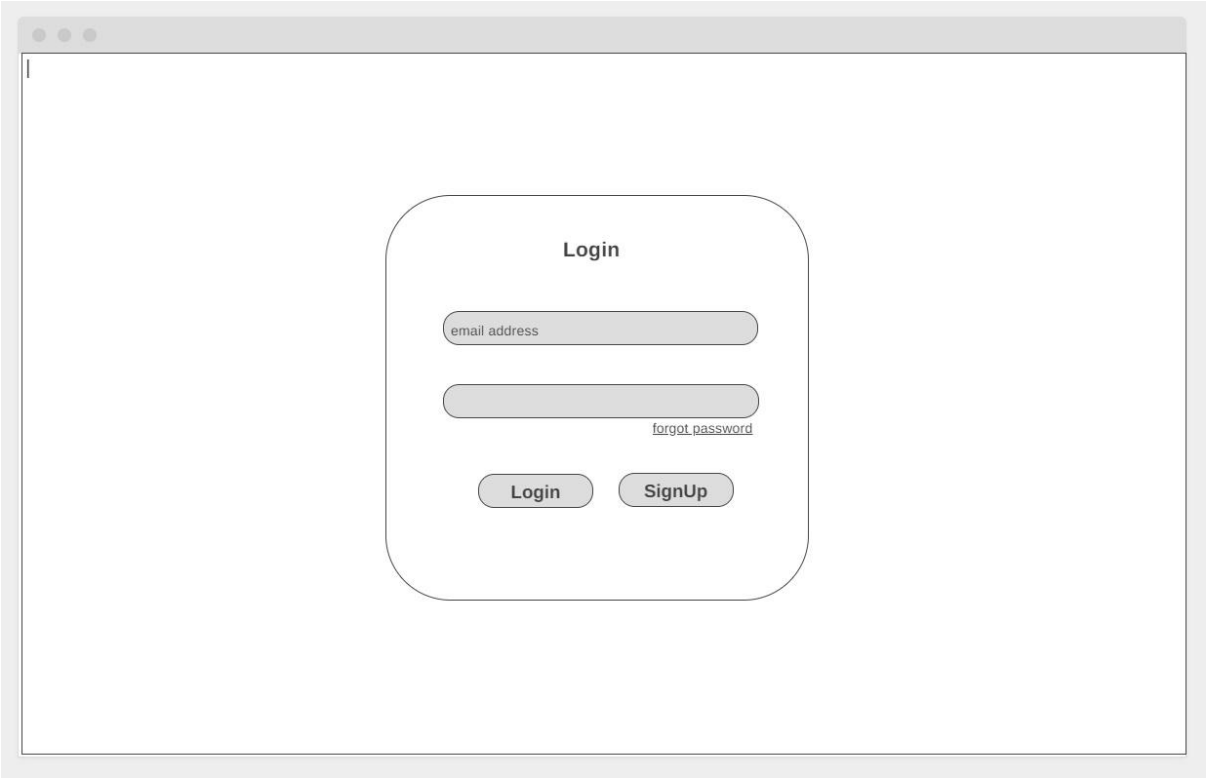
Validating user Email format, so that there will be a high chance to avoid typo mistakes in the email field. And the password length should be equal to eight characters or greater than eight characters.

4.1.3 Confirming Password match

Password checking is a two step process. First Password should have eight characters length or more than that. Second Confirm Password should be a perfect match for the first password. After this is validated then the webpage can be redirected to the home page and the password will be encrypted using hashing algorithm and stored in backend MongoDB database.

4.2 Login Credentials

Users can sign in using their email and password combination. Signed In users can access all the features according to their roles in the application if their account is verified.



4.2.1 Validating Email and Password

Email and Password entered by the user is validated with the database. If there is no email match with the provided email by user, then it will return “No user exists with this email”. If email exists then it checks for the password match with the provided password by the user. If the password is verified then the webpage will be redirected to the home page else it returns “Email or Password is incorrect”.

5. Users login

Users who are logged in to the website will be provided with some features like Like and Dislike for each video and users will be able to change their password also.

5.1 User permission

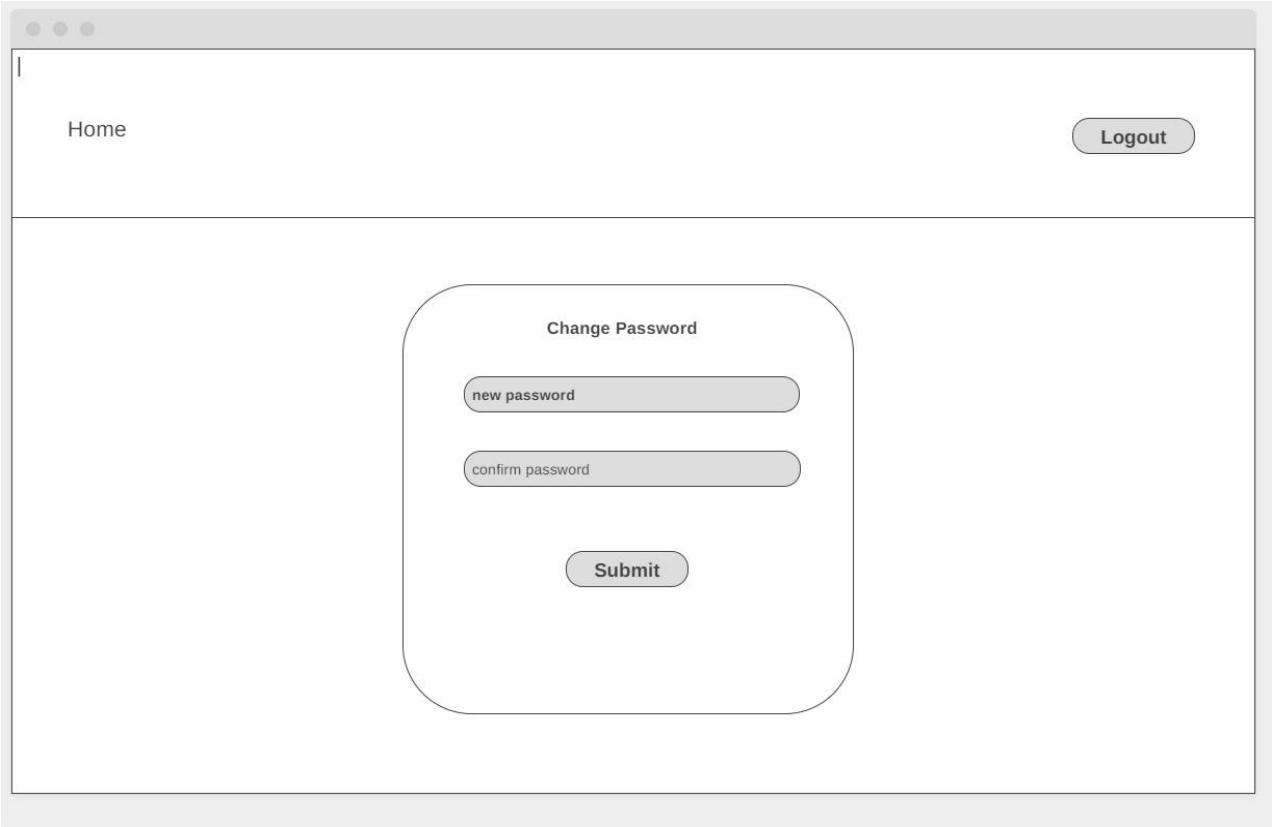
If the logged in user is admin, then admin can access the dashboard panel or if the logged in user is client user then the user can access some basic features like Like and Dislike feature for each video.

5.2 Profile Management

Users can manage his/her profile details provided in this application. That is, users are able to change their password.

5.2.1 Change Password

If any logged in user wants to change their password, he/she is able to change their password on this page. This password is also encrypted using a hashing algorithm. The password will be stored in the database only after encryption.


Home
Logout
Change Password
new password
confirm password
Submit