

# **Titles**

Project Name – YouTube Clone

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# Introduction

This YouTube Clone project is a full-stack video streaming web application built using the MERN stack (MongoDB, Express.js, React.js, Node.js) and styled with Tailwind CSS. It replicates the core features of YouTube, enabling users to:

- Sign up and log in securely using JWT-based authentication.
- Create their own channel (only one per user).
- Upload videos with metadata such as title, description, thumbnail, category, and URL.
- View and interact with videos through likes, dislikes, and comments.
- Browse content using search and category filters.
- Manage their own uploaded videos (edit/delete).

The goal of this project is to understand how real-world, production-grade full-stack applications are built and structured — involving both frontend and backend integration, RESTful API design, authentication, CRUD operations, and responsive UI/UX practices.

This project is ideal for developers who want hands-on experience building a complete media-sharing platform with user interaction, protected routes, and modern UI responsiveness.

# Organized File Structure

Creating a well-organized file structure is crucial for readability, maintainability, and collaboration in any web project. My project is already structured well, and here's a breakdown of each component:

Description of Files:

## **backend/ – Node.js, Express, MongoDB (API Layer)**

server.js

- Entry point for the backend server.
  - Sets up Express, connects to MongoDB, and mounts routes.
  - Runs on a port (e.g., 5000).
- 

## **Controllers/ – Route handlers**

- authController.js
    - Handles user registration and login.
    - Returns JWT on login.
  - channelController.js
    - Handles channel creation, fetching channel by ID/user.
    - Manages one-channel-per-user rule.
  - videoController.js
    - Handles uploading, updating, deleting, liking/disliking, and retrieving videos.
  - commentController.js
    - Handles posting, editing, deleting, and fetching comments for a video.
- 

## **Models/ – Mongoose schemas**

- User.js
  - Schema for user (email, username, password).
- Channel.js
  - Schema for user's channel.
  - References user and videos.
- Video.js
  - Schema for videos.
  - Includes title, category, thumbnail, likes/dislikes, views, channelId, uploader.

- Comment.js
    - Schema for user comments.
    - References video and user.
- 

## **Routes/ – Express routes**

- authRoutes.js
    - POST /api/auth/register
    - POST /api/auth/login
    - GET /api/auth/me
  - channelRoutes.js
    - POST /api/channels – create new channel
    - GET /api/channels/:channelId
    - GET /api/channels/user/:userId
  - videoRoutes.js
    - POST /api/videos – upload
    - GET /api/videos – list all
    - GET /api/videos/:videoId – details
    - PUT /api/videos/:videoId – edit
    - DELETE /api/videos/:videoId – delete
    - POST /api/videos/:videoId/like
    - POST /api/videos/:videoId/dislike
  - commentRoutes.js
    - POST /api/comments/:videoId
    - GET /api/comments/:videoId
    - PUT /api/comments/:commentId
    - DELETE /api/comments/:commentId
- 

## **Middleware/**

- authMiddleware.js
    - Verifies JWT in request headers.
    - Sets req.user if valid.
- 

## **frontend/ – React + Tailwind CSS (UI Layer)** **src/**

---

### **main.jsx**

- Entry point for the React app.
- Wraps app in context providers.

## **App.jsx**

- Main layout.
  - Renders Header, Sidebar, and route-based pages.
- 

## **pages/**

- Home.jsx
    - Lists all videos.
    - Filters by category.
    - Fetches videos from context.
  - VideoPlayer.jsx
    - Displays a selected video using iframe.
    - Handles likes, dislikes, and comment functionality.
  - Channel.jsx
    - Allows user to create channel.
    - Lists their uploaded videos.
    - Option to edit or delete.
  - UploadVideo.jsx
    - Uploads new video with details like thumbnail, title, category.
    - Validates and POSTs data.
  - EditVideo.jsx
    - Edit existing uploaded video.
  - Login.jsx
    - User login form.
    - Stores JWT token.
  - Register.jsx
    - User registration form.
- 

## **components/**

- Header.jsx
    - Logo, search bar, sign-in/sign-out button.
    - Responsive toggle for sidebar.
  - Sidebar.jsx
    - Navigation links: Home, My Channel, Explore.
    - Responsive: hidden on small screen, toggleable on medium+ screens.
  - VideoCard.jsx
    - Reusable card component to display video thumbnail, title, and metadata.
-

## **context/**

- AuthContext.jsx
    - Stores user info and JWT.
    - Handles login, logout.
    - Used across protected routes and components.
  - VideoContext.jsx
    - Central video store.
    - Provides all videos and filtered results.
    - Search handler logic for header and home.
- 

## **api/**

- axios.js
    - Axios instance with base URL (http://localhost:5000/api)
    - Simplifies importing axios in components.
- 

## **routes/**

- ProtectedRoute.jsx
  - Wraps around routes that require authentication.
  - Redirects unauthenticated users to login.

# Creativity and Presentation

This project was developed with both functionality and user experience in mind. The goal was to build a YouTube-like video-sharing platform with a clean UI, responsive layout, and interactive features. Below is an overview of the technologies used to build and style the application.

---

## Technologies Used

### Backend:

- Node.js – JavaScript runtime for building server-side logic.
- Express.js – Web framework for creating RESTful APIs.
- MongoDB – NoSQL database used for storing users, videos, comments, and channels.
- Mongoose – ODM for MongoDB, helps with schema and database operations.
- JWT (JSON Web Token) – Used for user authentication and authorization.
- Bcrypt.js – For password hashing.
- CORS & dotenv – Cross-origin access and environment variable configuration.

### Frontend:

- React.js – Frontend JavaScript library for building the UI.
- React Router – Handles navigation between pages (Home, Video, Channel, etc.).
- Axios – For making HTTP requests to the backend.
- Tailwind CSS – Utility-first CSS framework for fast and responsive styling.
- React Icons – For icons used in the UI (e.g., like/dislike, menu, account).
- Vite – Development server and bundler for fast React project bootstrapping.



### **API and Data Flow:**

- RESTful APIs built using Express and consumed using Axios on the client side.
- Protected routes ensure that certain pages (like uploading or editing videos) are only accessible to logged-in users.

### **Other Tools:**

- **MongoDB Compass** – For managing and viewing the database.
- **Postman** – API testing and development.

## Code

### Server.js

```
import express from "express";
import mongoose from "mongoose";
import dotenv from "dotenv";
import cors from "cors";
import authRoutes from "./Routes/authRoutes.js";
import commentRoutes from "./Routes/commentRoutes.js";
import channelRoutes from "./Routes/channelRoutes.js";
import videoRoutes from "./Routes/videoRoutes.js";

//Load environment variable
dotenv.config();

const app = express();
const PORT = process.env.PORT || 5000;

//Middleware
app.use(express.json());
app.use(cors());

//API Routes
app.use("/api/auth", authRoutes);
app.use("/api/comments", commentRoutes);
app.use("/api/channels", channelRoutes);
app.use("/api/videos", videoRoutes);

//Routes placeholder
// app.get("/", (req, res) => {
//   res.send("Youtube Clone API is running");
// });

// MongoDB Connection
mongoose
  .connect(process.env.MONGO_URI)
```

```

.then(() => {
  console.log("Connected to MongoDB");
  app.listen(PORT, () =>
    console.log(`Server running on http://localhost: ${PORT}`)
  );
})
.catch((err) => console.log("MongoDB connection error:", err));

```

### Models/User.js

```

import mongoose from "mongoose";

const userSchema = new mongoose.Schema(
  {
    username: {
      type: String,
      required: true,
    },
    email: {
      type: String,
      required: true,
      unique: true,
    },
    password: {
      type: String,
      required: true,
    },
    avatar: {
      type: String,
      default: "",
    },
    channels: [
      {
        type: mongoose.Schema.Types.ObjectId,
        ref: "Channel",

```

```

    },
  ],
},
{
  timestamps: true,
}
);

const User = mongoose.model("User", userSchema);
export default User;

```

#### Models/Video.js

```

import mongoose from "mongoose";

const videoSchema = new mongoose.Schema(
  {
    videoid: {
      type: String,
      required: true,
      unique: true,
    },
    title: {
      type: String,
      required: true,
      trim: true,
    },
    thumbnailUrl: {
      type: String,
      required: true,
    },
    description: {
      type: String,
      required: true,
    },
    videoUrl: {
      type: String,

```

```
    required: true,
  },
  channelId: {
    type: mongoose.Schema.Types.ObjectId,
    ref: "Channel",
    required: true,
  },
  uploader: {
    type: mongoose.Schema.Types.ObjectId,
    ref: "User",
    required: true,
  },
  category: {
    type: String,
    default: "Other",
    enum: [
      "Movies",
      "Music",
      "TV Show",
      "Gaming",
      "Education",
      "News",
      "Sports",
      "Travel",
      "Food",
      "Other",
    ],
  },
  views: {
    type: Number,
    default: 0,
  },
  likes: [
    {
      type: mongoose.Schema.Types.ObjectId,
      ref: "User",
    },
  ],
],
```

```

dislikes: [
  {
    type: mongoose.Schema.Types.ObjectId,
    ref: "User",
  },
],
uploadDate: {
  type: Date,
  default: Date.now,
},
},
{ timestamps: true }
);

const Video = mongoose.model("Video", videoSchema);
export default Video;

```

#### Models/Comment.js

```

import mongoose from "mongoose";

const commentSchema = new mongoose.Schema(
  {
    videoId: {
      type: mongoose.Schema.Types.ObjectId,
      ref: "Video",
      required: true,
    },
    userId: {
      type: mongoose.Schema.Types.ObjectId,
      ref: "User",
      required: true,
    },
    text: {
      type: String,
      required: true,
    },
    timestamp: {

```

```

    type: Date,
    default: Date.now,
  },
},
{
  timestamps: true,
}
);

const Comment = mongoose.model("Comment", commentSchema);
export default Comment;

```

#### Models/Channel.js

```

import mongoose from "mongoose";

const channelSchema = new mongoose.Schema(
  {
    channelName: {
      type: String,
      required: true,
    },
    owner: {
      type: mongoose.Schema.Types.ObjectId,
      ref: "User",
      required: true,
    },
    description: {
      type: String,
      required: true,
    },
    channelBanner: {
      type: String,
      default: "",
    },
    subscribers: {
      type: Number,
      default: 0,
    },
  }
);

```

```

    },
    videos: [
      {
        type: mongoose.Schema.Types.ObjectId,
        ref: "Video",
      },
    ],
  },
  {
    timestamps: true,
  }
);

const Channel = mongoose.model("Channel", channelSchema);
export default Channel;

```

#### Middleware/authMiddleware.js

```

import jwt from "jsonwebtoken";

const authMiddleware = (req, res, next) => {
  const authHeader = req.headers.authorization;

  if (!authHeader || !authHeader.startsWith("JWT")) {
    return res
      .status(401)
      .json({ error: "Authorization header missing or malformed" });
  }

  const token = authHeader.split(" ")[1];
  try {
    const decoded = jwt.verify(token, "secretKey");
    req.user = decoded;
    next();
  } catch (error) {
    res.status(403).json({ error: "Invalid or expired token" });
  }
};

```



```
export default authMiddleware;
```

Controllers/authController.js

```
import User from "../Models/User.js";
```

```
import bcrypt from "bcryptjs";
```

```
import jwt from "jsonwebtoken";
```

```
//Register User
```

```
export const registerUser = async (req, res) => {
```

```
  try {
```

```
    const { username, email, password } = req.body;
```

```
    const existingUser = await User.findOne({ email });
```

```
    if (existingUser) {
```

```
      return res.status(400).json({ error: "User already exists" });
```

```
    }
```

```
    const hashedPassword = await bcrypt.hash(password, 10);
```

```
    const newUser = new User({
```

```
      username,
```

```
      email,
```

```
      password: hashedPassword,
```

```
    });
```

```
    await newUser.save();
```

```
    res.status(201).json({ message: "User registered successfully" });
```

```
  } catch (error) {
```

```
    res.status(500).json({ error: "Registration failed" });
```

```
  }
```

```
};
```

```
//Login User
```

```
export const loginUser = async (req, res) => {
```

```
  try {
```

```
    const { email, password } = req.body;
```

```
    const user = await User.findOne({ email });
```

```
    if (!user) {
```

```
      return res.status(400).json({ error: "Invalid credentials" });
```

```
    }
```

```
    const isMatch = await bcrypt.compare(password, user.password);
```

```

    if (!isMatch) {
      return res.status(400).json({ error: "Invalid credentials" });
    }
    const token = jwt.sign({ id: user._id }, "secretKey", { expiresIn: "1h" });

    res.json({
      token,
      user: {
        id: user._id,
        username: user.username,
        email: user.email,
        avatar: user.avatar,
      },
    });
  } catch (error) {
    res.status(500).json({ error: "Login failed" });
  }
};

```

#### Routes/authRoutes.js

```

import express from "express";
import { loginUser, registerUser } from "../Controllers/authController.js";
import authMiddleware from "../Middleware/authMiddleware.js";
import User from "../Models/User.js";

const router = express.Router();

//Register new user
router.post("/register", registerUser);

//Login user and return JWT
router.post("/login", loginUser);

// Get currently logged in user
router.get("/me", authMiddleware, async (req, res) => {
  try {
    const user = await User.findById(req.user.id).select("-password");

```

```

    if (!user) return res.status(404).json({ error: "User not found" });
    res.json(user);
  } catch (err) {
    console.error("/me error:", err);
    res.status(500).json({ error: "Failed to fetch user info" });
  }
});

```

```

export default router;

```

### Frontend Code:-

App.jsx

```

import { Route, BrowserRouter as Router, Routes } from "react-router-dom";
import Header from "../components/Header";
import Home from "../pages/Home";
import VideoPlayer from "../pages/VideoPlayer";
import Channel from "../pages/Channel";
import Login from "../pages/Login";
import Register from "../pages/Register";
import NotFound from "../pages/NotFound";
import { useEffect, useState } from "react";
import Sidebar from "../components/Sidebar";
import ProtectedRoute from "../routes/ProtectedRoute";
import UploadVideo from "../pages/UploadVideo";
import EditVideo from "../pages/EditVideo";

```

```

function App() {
  const [isSidebarOpen, setIsSidebarOpen] = useState(true);

  useEffect(() => {
    const handleResize = () => {
      if (window.innerWidth < 768) {
        setIsSidebarOpen(false);
      } else {
        setIsSidebarOpen(true);
      }
    }
  });

```

```
};
```

```
handleResize(); // run once on mount  
window.addEventListener("resize", handleResize);  
return () => window.removeEventListener("resize", handleResize);  
}, []);
```

```
return (  
  <Router>  
    <Header toggleSidebar={() => setIsSidebarOpen((prev) => !prev)} />  
    <div className="flex relative">  
      <Sidebar isOpen={isSidebarOpen} />  
      <div className="flex-1 transition-all duration-300">  
        <Routes>  
          <Route path="/" element={<Home />} />  
          <Route  
            path="/video/:id"  
            element={(  
              <ProtectedRoute>  
                {" "  
                <VideoPlayer />  
              </ProtectedRoute>  
            )}  
          />  
          <Route  
            path="/channel/:channelId"  
            element={(  
              <ProtectedRoute>  
                <Channel />  
              </ProtectedRoute>  
            )}  
          />  
          <Route path="/login" element={<Login />} />  
          <Route path="/register" element={<Register />} />  
          <Route path="/upload" element={<UploadVideo />} />  
          <Route path="/edit-video/:videoid" element={<EditVideo />} />  
          <Route path="*" element={<NotFound />} />  
        </Routes>
```

```

        </div>
      </div>
    </Router>
  );
}

export default App;

```

## Header.jsx

```

import { HiMenu } from "react-icons/hi";
import { Link } from "react-router-dom";
import { IoLogoYoutube } from "react-icons/io";
import { FiSearch } from "react-icons/fi";
import { MdAccountCircle } from "react-icons/md";
import { useContext } from "react";
import { AuthContext } from "../context/AuthContext";
import { useVideo } from "../context/VideoContext";

function Header({ toggleSidebar }) {
  const { user, logout } = useContext(AuthContext);
  const { search, setSearch, handleSearch } = useVideo();

  return (
    <header className="flex items-center justify-between px-6 py-3 bg-white shadow-md sticky top-0 z-100">
      <div className="flex item-center gap-4">
        <button onClick={toggleSidebar} className="text-2xl">
          <HiMenu />
        </button>
        <Link
          to="/"
          className="flex items-center gap-1 text-xl font-bold text-shadow-lg"
        >
          <IoLogoYoutube className="text-2xl text-red-600" />
          YouTube
        </Link>

```

```
</div>
```

```
{/* Search Bar */}
```

```
<div className="hidden md:flex justify-center flex-1 mx-4">
```

```
  <input
```

```
    type="text"
```

```
    placeholder="Search..."
```

```
    value={search}
```

```
    onChange={(e) => setSearch(e.target.value)}
```

```
    className="w-1/2 border rounded-l-xl py-1 px-4"
```

```
  />
```

```
  <button
```

```
    onClick={handleSearch}
```

```
    className="bg-gray-200 px-4 py-1 rounded-r-xl"
```

```
  >
```

```
    <FiSearch />
```

```
  </button>
```

```
</div>
```

```
{/* Auth Section */}
```

```
<div className="flex items-center gap-3">
```

```
  {!user ? (
```

```
    <Link
```

```
      to="/login"
```

```
      className="flex items-center gap-1 text-blue-500 text-sm font-semibold bg-gray-100 hover:bg-gray-300 px-3 py-1 rounded-md"
```

```
    >
```

```
      <MdAccountCircle className="text-2xl" /> Sign In
```

```
    </Link>
```

```
  ) : (
```

```
    <>
```

```
      <span className="flex items-center gap-1 text-sm font-medium text-gray-700 bg-zinc-300 py-1 px-4 rounded">
```

```
        <MdAccountCircle className="text-2xl" /> {user.username}
```

```
      </span>
```

```
      <button
```

```
        onClick={logout}
```

```
        className="text-sm font-semibold bg-red-500 hover:bg-red-700 text-white px-3 py-1 rounded-md"
```

```
      >
```

```

        Logout
      </button>
    </>
  })
</div>
</header>
);
}

export default Header;

```

## Home.jsx

```

import { useEffect, useState } from "react";
import VideoCard from "../components/VideoCard";
import { useLocation } from "react-router-dom";
import { useVideo } from "../context/VideoContext";

function Home() {
  const categories = [
    "All",
    "Movies",
    "Music",
    "TV Show",
    "Gaming",
    "Education",
    "News",
    "Sports",
    "Travel",
    "Food",
    "Other",
  ];

  const [activeCategory, setActiveCategory] = useState("All");
  const { videos, filteredVideos, setFilteredVideos } = useVideo();

  const location = useLocation();
  const searchParams = new URLSearchParams(location.search);

```

```
const search = searchParams.get("search")?.toLowerCase() || "";
```

```
useEffect(() => {
```

```
  let filtered = [...videos];
```

```
  if (activeCategory !== "All") {
```

```
    filtered = filtered.filter(
```

```
      (video) =>
```

```
        video.category?.toLowerCase() === activeCategory.toLowerCase()
```

```
    );
```

```
  }
```

```
  if (search) {
```

```
    filtered = filtered.filter((video) =>
```

```
      video.title.toLowerCase().includes(search)
```

```
    );
```

```
  }
```

```
  setFilteredVideos(filtered);
```

```
}, [videos, activeCategory, search]);
```

```
return (
```

```
  <div className="flex">
```

```
    <main className="flex-1 p-4 ml-0">
```

```
      {/* Category Filters */}
```

```
      <div className="flex justify-center flex-wrap gap-2 mb-4">
```

```
        {categories.map((cat) => (
```

```
          <button
```

```
            key={cat}
```

```
            onClick={() => setActiveCategory(cat)}
```

```
            className={`px-4 py-1 text-sm rounded-full ${
```

```
              activeCategory === cat
```

```
                ? "bg-zinc-900 text-white font-semibold"
```

```
                : "bg-gray-200 hover:bg-gray-300"
```

```
            `}
```

```
          >
```

```
            {cat}
```

```
        </button>
```



```

    ))}
  </div>

  {/* Video Grid */}
  {filteredVideos.length === 0 ? (
    <p className="text-center text-gray-500">No videos found.</p>
  ) : (
    <div className="grid m-6 sm:m-0 gap-4 grid-cols-1 sm:grid-cols-2 md:grid-cols-2 lg:grid-cols-3">
      {filteredVideos.map((video) => (
        <VideoCard key={video._id} video={video} />
      ))}
    </div>
  )}
</main>
</div>
);
}

```

```
export default Home;
```

### UploadVideo.jsx

```

import { useContext, useState } from "react";
import { useNavigate } from "react-router-dom";
import { AuthContext } from "../context/AuthContext";
import axios from "../api/axios";

function UploadVideo() {
  const { user } = useContext(AuthContext);
  const navigate = useNavigate();

  const [formData, setFormData] = useState({
    title: "",
    description: "",
    category: "",
    videoUrl: "",
    thumbnailUrl: "",
  });
};

```

```
const [error, setError] = useState("");
```

```
const handleChange = (e) => {  
  setFormData((prev) => ({ ...prev, [e.target.name]: e.target.value }));  
};
```

```
const generateVideoid = () => {  
  return "vid_" + Date.now().toString(36);  
};
```

```
const handleSubmit = async (e) => {  
  e.preventDefault();
```

```
  const token = localStorage.getItem("token");  
  const channelId = localStorage.getItem("channelId"); // stored after login/channel creation  
  console.log("Uploading to channelId:", channelId);  
  if (!channelId) {  
    setError("No channel found. Please create a channel first.");  
    return;  
  }
```

```
  const payload = {  
    videoid: generateVideoid(),  
    title: formData.title,  
    description: formData.description,  
    thumbnailUrl: formData.thumbnailUrl,  
    videoUrl: formData.videoUrl,  
    channelId,  
    category: formData.category || "Other",  
  };
```

```
  try {  
    await axios.post("/videos", payload, {  
      headers: {  
        Authorization: `JWT ${token}`,  
      },  
    });
```

```

        navigate("/channel/my");
    } catch (err) {
        setError(err.response?.data?.error || "Upload failed");
    }
    console.log("Uploading:", payload);
};

```

```

if (!user) return <p className="text-center mt-10">Please login first.</p>;

```

```

return (
    <div className="max-w-2xl mx-auto mt-10 p-6 bg-white rounded shadow">
        <h2 className="text-2xl font-bold mb-6">Upload New Video</h2>
        {error && <p className="text-red-500 mb-4">{error}</p>}

```

```

    <form onSubmit={handleSubmit} className="space-y-4">

```

```

        <input
            name="title"
            placeholder="Video Title"
            value={formData.title}
            onChange={handleChange}
            required
            className="w-full border p-2 rounded"

```

```

        />

```

```

        <textarea
            name="description"
            placeholder="Video Description"
            value={formData.description}
            onChange={handleChange}
            required
            className="w-full border p-2 rounded"

```

```

        />

```

```

        { /* Category Dropdown */ }

```

```

        <select
            name="category"
            value={formData.category}
            onChange={handleChange}
            required
            className="w-full border p-2 rounded bg-white"

```

```

>
<option value="">Select a Category</option>
<option value="Movies">Movies</option>
<option value="Music">Music</option>
<option value="TV Show">TV Show</option>
<option value="Gaming">Gaming</option>
<option value="Education">Education</option>
<option value="News">News</option>
<option value="Sports">Sports</option>
<option value="Travel">Travel</option>
<option value="Food">Food</option>
<option value="Other">Other</option>
</select>
<input
  name="videoUrl"
  placeholder="Video URL"
  value={formData.videoUrl}
  onChange={handleChange}
  required
  className="w-full border p-2 rounded"
/>
<input
  name="thumbnailUrl"
  placeholder="Thumbnail URL"
  value={formData.thumbnailUrl}
  onChange={handleChange}
  required
  className="w-full border p-2 rounded"
/>
<button
  type="submit"
  className="w-full bg-blue-600 text-white py-2 rounded hover:bg-blue-800"
>
  Upload Video
</button>
</form>
</div>
);

```

```
}
```

```
export default UploadVideo;
```

### Sidebar.jsx

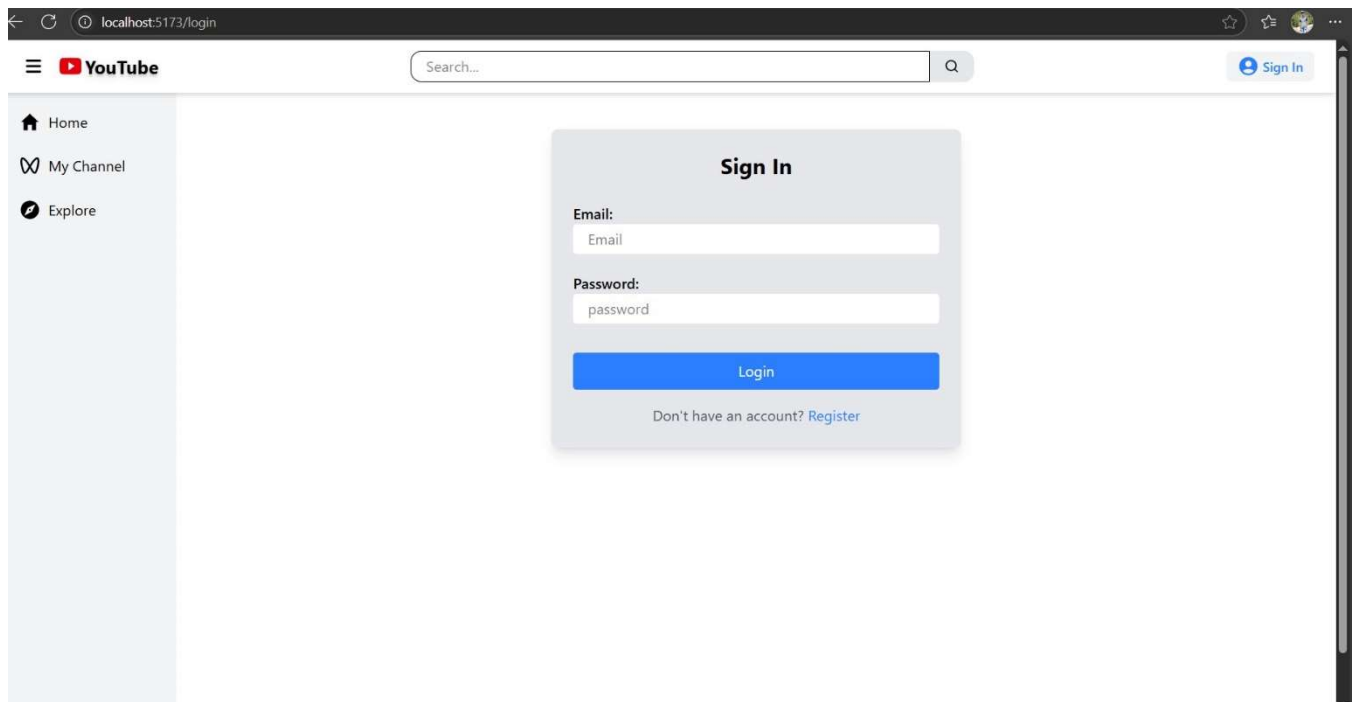
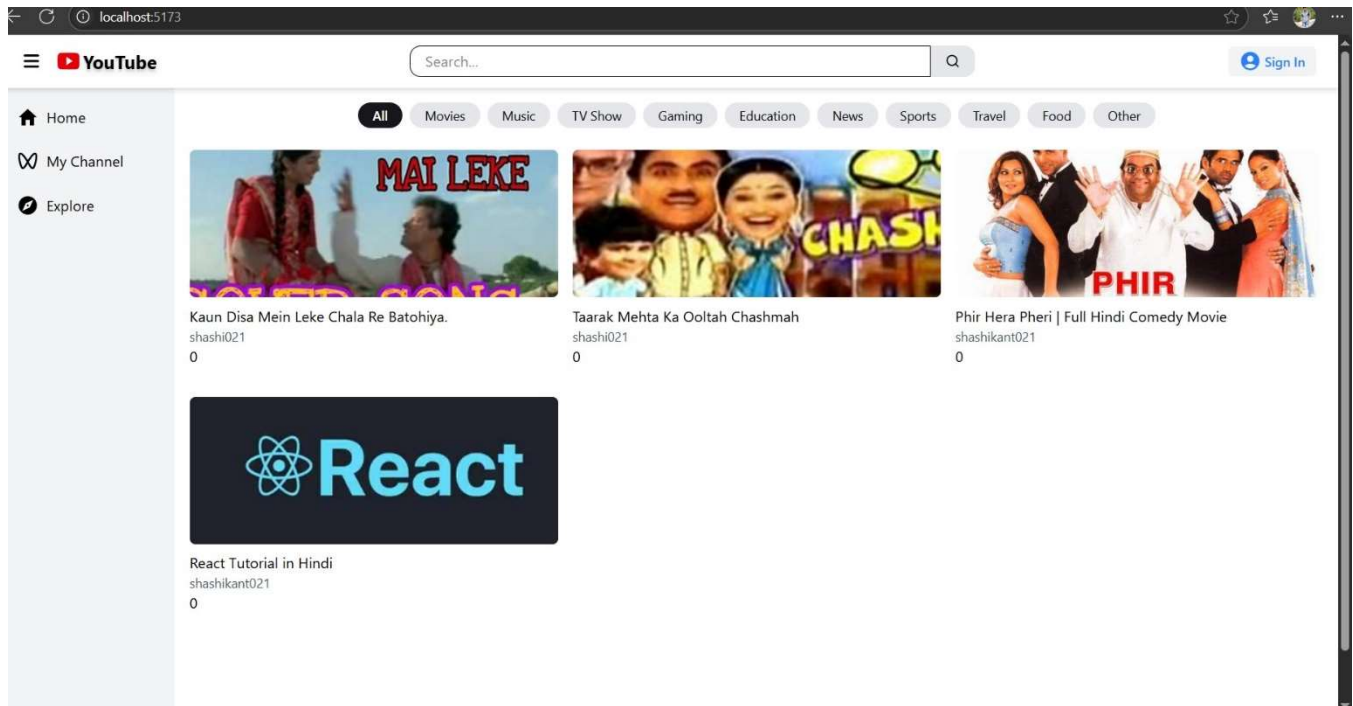
```
import { Link } from "react-router-dom";
import { IoMdHome } from "react-icons/io";
import { MdExplore } from "react-icons/md";
import { RiWechatChannelsLine } from "react-icons/ri";

function Sidebar({ isOpen }) {
  return (
    <aside
      className={`
        bg-gray-100 min-h-screen top-[55px] z-50 overflow-hidden transition-all duration-300
        fixed md:static
        ${isOpen ? "w-48" : "w-0"}
        ${isOpen && window.innerWidth < 768 ? "left-0 absolute shadow-lg" : ""}
      `}
    >
      {" "}
      <nav
        className={`flex flex-col gap-4 p-4 ${
          isOpen ? "opacity-100" : "opacity-0"
        } transition-opacity duration-300`}
      >
        <Link
          to="/"
          className="hover:bg-gray-300 p-1 rounded flex items-center gap-2"
        >
          <IoMdHome className="text-2xl" /> Home
        </Link>
        <Link
          to="/channel/my"
          className="hover:bg-gray-300 p-1 rounded flex items-center gap-2"
        >
          <RiWechatChannelsLine className="text-2xl" /> My Channel
        </Link>
```

```
      <Link className="hover:bg-gray-300 p-1 rounded flex items-center gap-2">
        <MdExplore className="text-2xl" /> Explore
      </Link>
    </nav>
  </aside>
);
}

export default Sidebar;
```

## Screenshot :-







YouTube

Search...

shashikant sahuLogout

Home

My Channel

Explore

Upload New Video

Video Title

Video Description

Select a Category

Video URL

Thumbnail URL

Upload Video

 **GitHub Link:-** <https://github.com/shashikant021/YouTube-Clone.git>