

ДОДАТОК

Посилання на github проекту <https://github.com/YouRlittleBatraYal/Diplomskr>

Для успішного запуску необхідно встановити платформу Node.js версії 16.20.0 (це пов'язано з тим що на момент розробки використовувалась саме та версія на пк і програма на тій версії точно запуститься, на інших версіях не перевірено)

для інсталювання залежностей (фреймворків) необхідно як у директорії "server" так і у "client" написати команду таку "npm ci"

для самого запуску програм слід також в терміналі кожної директорії (server, client) написати "npm start"

Лістинг коду серверної частини,

Вміст package.json

```
{
  "name": "yt-clone-own-api",
  "name": "express-not-working-issue",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1",
    "dev": "nodemon server.js"
  },
  "author": "Harsg",
  "license": "ISC",
  "dependencies": {
    "body-parser": "^1.20.0",
    "cors": "^2.8.5",
    "express": "^4.18.1",
    "ffmpeg-static": "^5.1.0",
    "fluent-ffmpeg": "^2.1.2",
    "multer": "^1.4.5-lts.1",
    "nodemon": "^2.0.16"
  }
}
```

Вміст файлу server.js

```
const http = require("http");
const app = require("./App");
const port = process.env.PORT || 5000;
const server = http.createServer(app);
server.listen(port, () => {
  console.log(`Listening on port ${port}`);
});
```

Вміст файлу App.js

```

const express = require("express");
const bodyParser = require("body-parser");
const cors = require("cors");
const path = require("path");
const app = express();
app.use(bodyParser.json());
app.use(bodyParser.urlencoded({ extended: true }));
app.use(cors());
app.use("/api/video", require("./api/routes/video"));
app.use("/Uploads", express.static("Uploads"));
if (process.env.NODE_ENV === "production") {
  app.use(express.static("Client/build"));
  app.get("*", (req, res) => {
    res.sendFile(path.resolve(__dirname, "../Client", "build", "index.html"));
  });
}
module.exports = app;

```

вист файлу api\video.js

```

const express = require("express");
const router = express.Router();
const multer = require("multer");
const ffmpeg = require("fluent-ffmpeg");
const fileFilter = (req, file, cb) => {
  console.log("filefilter executed");
  if (file.mimetype === "video/mp4" || file.mimetype === "video/mpeg") {
    cb(null, true);
  } else {
    console.log("image type incorrect");
    cb("only Video files is allowed", false);
  }
};
const storage = multer.diskStorage({
  destination: function (req, file, cb) {
    cb(null, "Uploads/");
  },
  filename: function (req, file, cb) {
    const uniqueSuffix = Date.now() + "-" + file.originalname;
    cb(null, file.fieldname + "-" + uniqueSuffix);
  },
});
const upload = multer({ storage: storage, fileFilter: fileFilter }).single(
  "file"
)

```

```

);

router.post("/uploadfiles", (req, res) => {
  upload(req, res, (err) => {
    if (err) {
      return res.json({
        success: false,
        err,
      });
    }
    return res.json({
      success: true,
      filepath: res.req.file.path,
      fileName: res.req.file.filename,
    });
  });
});

router.post("/uploadThumbnail", (req, res) => {
  const fileFilterThumbnail = (req, file, cb) => {
    if (
      file.mimetype === "image/jpeg" ||
      file.mimetype === "image/apng" ||
      file.mimetype === "image/png"
    ) {
      cb(null, true);
    } else {
      console.log("image type incorrect");
      cb("Sorry bruh You cant have a **not image** thumbnail(for now)", false);
    }
  };
  const storageThumbnail = multer.diskStorage({
    destination: function (req, file, cb) {
      cb(null, "Uploads/thumbnails/");
    },
    filename: function (req, file, cb) {
      const uniqueSuffix = Date.now() + "-" + file.originalname;
      cb(null, file.fieldname + "-" + uniqueSuffix);
    },
  });
  const uploadThumbnail = multer({
    storage: storageThumbnail,
    fileFilter: fileFilterThumbnail,
  }).single("file");
}
);

```

```

uploadThumbnail(req, res, (err) => {
  if (err) {
    return res.json({
      success: false,
      err,
    });
  }
  return res.json({
    success: true,
    filepath: res.req.file.path,
    fileName: res.req.file.filename,
  });
});

router.post("/thumbnail", (req, res) => {
  let Thumbsfilepath = [];
  let fileDuration = "";
  ffmpeg.ffprobe(req.body.filePath, (err, metadata) => {
    console.log(metadata.format.duration);
    fileDuration = metadata.format.duration;
  });
  ffmpeg(req.body.filePath)
    .on("filenames", function (filenames) {
      for (names in filenames) {
        Thumbsfilepath.push("Uploads/thumbnails/" + filenames[names]);
      }
    })
    .on("end", function () {
      console.log("Screenshots taken");
      return res.json({
        success: true,
        Thumbsfilepath: Thumbsfilepath,
        fileDuration: fileDuration,
      });
    })
    .screenshots({
      // Will take screens at 20%, 40%, 60% and 80% of the video
      count: 1,
      folder: "Uploads/thumbnails",
      size: "320x240",
      filename: "thumbnail-%b.png",
    });
});

```

```

    });
});

module.exports = router;

```

Лістинг коду до клієнтської частини

Файл Package.json

```

"version": "0.1.0",
"private": true,
"dependencies": {
  "@testing-library/jest-dom": "^5.16.4",
  "@testing-library/react": "^13.2.0",
  "@testing-library/user-event": "^13.5.0",
  "axios": "^0.27.2",
  "bootstrap": "^5.1.3",
  "firebase": "^9.8.2",
  "framer-motion": "^6.3.4",
  "get-google-fonts": "^1.2.2",
  "moment": "^2.29.3",
  "node-sass": "^7.0.1",
  "numeral": "^2.0.6",
  "react": "^18.1.0",
  "react-bootstrap": "^2.4.0",
  "react-dom": "^18.1.0",
  "react-dropzone": "^14.2.1",
  "react-helmet": "^6.1.0",
  "react-icons": "^4.3.1",
  "react-lazy-load-image-component": "^1.5.4",
  "react-notifications": "^1.7.3",
  "react-redux": "^8.0.2",
  "react-router-dom": "^6.3.0",
  "react-scripts": "5.0.1",
  "react-select": "^5.3.2",
  "react-toastify": "^9.0.1",
  "redux": "^4.2.0",
  "redux-thunk": "^2.4.1",
  "spinners-react": "^1.0.7",
  "styled-components": "^5.3.5",
  "web-vitals": "^2.1.4"
},
"scripts": {
  "start": "react-scripts start",
  "build": "react-scripts build",
}

```

```

    "test": "react-scripts test",
    "eject": "react-scripts eject"
  },
  "eslintConfig": {
    "extends": [
      "react-app",
      "react-app/jest"
    ]
  },
  "browserslist": {
    "production": [
      ">0.2%",
      "not dead",
      "not op_mini all"
    ],
    "development": [
      "last 1 chrome version",
      "last 1 firefox version",
      "last 1 safari version"
    ]
  }
}

```

Вміст файлу index.js

```

import React from "react";
import ReactDOM from "react-dom/client";
import "bootstrap/dist/css/bootstrap.min.css";
import "react-lazy-load-image-component/src/effects/blur.css";

import App from "./App";
import "./_base.scss";

const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);

```

Вміст файлу categories.js

```

export const categories = [
  { value: 0, label: "Усі" },
  { value: 1, label: "Тваринки" },
  { value: 2, label: "Техніка" },

```

```

    { value: 3, label: "Природа" },
    { value: 4, label: "Навчання" },
    { value: 5, label: "Музика" },
    { value: 7, label: "Собаки" },
    { value: 8, label: "Софт" },
    { value: 9, label: "Сталкер2" },
    { value: 10, label: "Ігри" },
    { value: 11, label: "#programming" },
    { value: 12, label: "Онлайн ігри" },
    { value: 13, label: "Ігри на linux" },
    { value: 14, label: "#coding" },
    { value: 15, label: "Записи стрімів" },
    { value: 16, label: "Відео проходження" },
    { value: 17, label: "#Меми" },
    { value: 18, label: "#рецепти" },
    { value: 19, label: "#trending" },
    { value: 20, label: "#хендмейд" },
    { value: 21, label: "#techtips" },
    { value: 22, label: "#technews" },
    { value: 23, label: "#tech" },
    { value: 24, label: "#блогер" },
    { value: 25, label: "#Закордон" },
    { value: 26, label: "Github" },
    { value: 28, label: "Stackoverflow" },
    { value: 29, label: "Капібара" },
    { value: 27, label: "#різне" },
    { value: 30, label: "Казна що" },
];

```

Вміст файлу app.js

```

import { useState } from "react";
import { Container } from "react-bootstrap";
import { BrowserRouter as Router, Route, Routes } from "react-router-dom";
import "react-notifications/lib/notifications.css";
import { NotificationContainer } from "react-notifications";
import { createStore, combineReducers, applyMiddleware } from "redux";
import { Provider } from "react-redux";
import ReduxThunk from "redux-thunk";
import Header from "./components/header/Header";
import Homescreen from "./Screens/Homescreen/Homescreen";
import Sidebar from "./components/sidebar/Sidebar";
import Login from "./Screens/LoginScreen/Login";
import PagenotFound from "./Screens/PageNotFound/PagenotFound";

```

```

import ProtectedRoute from "./components/ProtectedRoute";
import ForgotPassword from "./Screens/ForgotPassword/ForgotPassword";
import UserActions from "./Screens/UserActions/UserActions";
import Upload from "./Screens/Upload/Uplaod";
import VideosReducer from "./Store/reducers/Videos";
import AuthReducer from "./Store/reducers/Auth";
import { AuthProvider } from "./Context/UserAuthContext";
import "./_app.scss";
import WatchScreen from "./Screens/WatchScreen/WatchScreen";
import SearchScreen from "./Screens/SearchScreen/SearchScreen";
import Subscriptions from "./Screens/subscriptions/subscriptions";
import ChannelScreen from "./Screens/channelScreen/ChannelScreen";
import EditVideo from "./Screens/EditVideoScreen/EditVideo";
const RootReducer = combineReducers({
  Vidoes: VideosReducer,
  auth: AuthReducer,
});
const store = createStore(RootReducer, applyMiddleware(ReduxThunk));
const Layout = ({ children }) => {
  const [toggleSidebar, settoggleSidebar] = useState(false);
  const handleToggleSidebar = () => {
    settoggleSidebar(!toggleSidebar);
  };
  return (
    <ProtectedRoute>
      <Header handleToggleSidebar={handleToggleSidebar} />
      <div className="app_container">
        <Sidebar
          handleToggleSidebar={handleToggleSidebar}
          toggleSidebar={toggleSidebar}
        />
        <Container className="app_main" fluid>
          {children}
        </Container>
      </div>
    </ProtectedRoute>
  );
};
function App() {
  const [containerAuth, togglecontainerAuth] = useState(true);
  const handleContainerLogin = () => {
    togglecontainerAuth(!containerAuth);
}

```

```

};

return (
<Provider store={store}>
<AuthProvider>
<div className="App">
<Router>
<Routes>
<Route
  path="/"
  element={
    <Layout>
      <Homescreen />
    </Layout>
  }
/>
<Route
  path="/login"
  element={
    <Login
      containerAuth={containerAuth}
      handleContainerLogin={handleContainerLogin}
    />
  }
/>
<Route
  path="/search/:query"
  element={
    <Layout>
      <SearchScreen />
    </Layout>
  }
/>
<Route path="/forgot-password" element={<ForgotPassword />} />
<Route path="/UserActions" element={<UserActions />} />
<Route
  path="/Upload"
  element={
    <Layout>
      <Upload />
    </Layout>
  }
/>

```

```

<Route
  path="/watch/:id"
  element={
    <Layout>
      <WatchScreen />
    </Layout>
  }
/>

<Route
  path="/channel/:channelId"
  element={
    <Layout>
      <ChannelScreen />
    </Layout>
  }
/>

<Route
  path="/EditVideo/:id"
  element={
    <Layout>
      <EditVideo />
    </Layout>
  }
/>

<Route
  path="/feed/subscriptions"
  element={
    <Layout>
      <Subscriptions />
    </Layout>
  }
/>

<Route path="*" element={<NotFound />} />

</Routes>
</Router>
<NotificationContainer />
</div>
</AuthProvider>
</Provider>
);

}

export default App;

```

Вміст файлу \reducers\Videos.js

```

import Video from "../../model/Video";
import Comment from "../../model/Comment";
import {
  CREATE_Video,
  SET_Videos,
  SET_VideoDetails,
  SET_Channel_Videos,
  SET_OwnerVidDetails,
  SET_RelatedVideos,
  SET_Suscribers,
  SET_SearchVideos,
  CREATE_Comment,
  CREATE_Like,
  CREATE_Dislike,
  REMOVE_Like,
  REMOVE_DisLike,
} from "../actions/Videos";
const initialState = {
  availableVideos: [],
  UserVideos: [],
  relatedVids: [],
  SearchVids: [],
  Suscribers: [],
  video: null,
  VideoOwnerDetails: null,
};
export default (state = initialState, action) => {
  switch (action.type) {
    case CREATE_Video:
      const NewVideo = new Video(
        action.VideoData.id,
        action.VideoData.ownerId,
        action.VideoData.title,
        action.VideoData.thumbnail,
        action.VideoData.descriptions,
        action.VideoData.duration,
        action.VideoData.views,
        action.VideoData.Categories,
        action.VideoData.publicity,
        action.VideoData.filePath,
        action.VideoData.Usersname,
      );
      return { ...state, availableVideos: [...state.availableVideos, NewVideo] };
    case SET_Videos:
      return { ...state, UserVideos: action.videos };
    case SET_VideoDetails:
      return { ...state, relatedVids: action.videos };
    case SET_Channel_Videos:
      return { ...state, SearchVids: action.videos };
    case SET_OwnerVidDetails:
      return { ...state, Suscribers: action.videos };
    case SET_RelatedVideos:
      return { ...state, UserVideos: action.videos };
    case SET_Suscribers:
      return { ...state, UserVideos: action.videos };
    case SET_SearchVideos:
      return { ...state, UserVideos: action.videos };
    case CREATE_Comment:
      return { ...state, UserVideos: [action.comment, ...state.UserVideos] };
    case CREATE_Like:
      return { ...state, UserVideos: [action.like, ...state.UserVideos] };
    case CREATE_Dislike:
      return { ...state, UserVideos: [action.dislike, ...state.UserVideos] };
    case REMOVE_Like:
      return { ...state, UserVideos: state.UserVideos.filter((v) => v.id !== action.id) };
    case REMOVE_DisLike:
      return { ...state, UserVideos: state.UserVideos.filter((v) => v.id !== action.id) };
  }
}

```

```

action.VideoData.Userpfp,
action.VideoData.timestamp,
action.VideoData.comments,
[],
[]
);
return {
...state,
availableVideos: state.availableVideos.concat(NewVideo),
UserVidoes: state.UserVidoes.concat(NewVideo),
};
case SET_Vidoes:
return {
...state,
availableVideos: action.videos,
UserVidoes: action.userVidoes,
};
case SET_Channel_Vidoes:
return {
...state,
UserVidoes: action.userVidoes,
};
case SET_VideoDetails:
return {
...state,
video: action.video,
};
case SET_OwnerVidDetails:
return {
...state,
VideoOwnerDetails: action.Userdata,
};
case SET_RelatedVidoes:
return {
...state,
relatedVids: action.relatedvideos,
};
case SET_SearchVidoes:
return {
...state,
SearchVids: action.Searchvideos,
};

```

```

case SET_Suscribers:
  return {
    ...state,
    Suscribers: action.Suscribers,
  };
case CREATE_Comment:
  const newComment = new Comment(
    action.CommentData.VideoId,
    action.CommentData.userId,
    action.CommentData.name,
    action.CommentData.userPfp,
    action.CommentData.Comment,
    action.CommentData.timestamp
  );

  const updatedVideo = {
    ...state.video,
    comments: state.video.comments.concat(newComment),
  };
  return {
    ...state,
    video: updatedVideo,
  };
case CREATE_Like:
  const updatedLikes = {
    ...state.video,
    likes: state.video.likes.concat(action.userId),
  };
  return {
    ...state,
    video: updatedLikes,
  };
case REMOVE_Like:
  const newlikesArr = [...state.video.likes];
  newlikesArr.splice(newlikesArr.indexOf(action.userId), 1);
  const updatedremovedLikes = {
    ...state.video,
    likes: newlikesArr,
  };
  return {
    ...state,
  };

```

```

    video: updatedremovedLikes,
  };

case REMOVE_DisLike:
  const newdislikesArr = [...state.video.dislikes];
  newdislikesArr.splice(newdislikesArr.indexOf(action.userId), 1);

  const updatedremovedDisLikes = {
    ...state.video,
    dislikes: newdislikesArr,
  };
  return {
    ...state,
    video: updatedremovedDisLikes,
  };

case CREATE_Dislike:
  const updatedisLikes = {
    ...state.video,
    dislikes: state.video.dislikes.concat(action.userId),
  };
  return {
    ...state,
    video: updatedisLikes,
  };

default:
  return state;
}

};

};


```

Вміст файлу \reducers\Auth.js

```

import { SET_UserDetails } from "../actions/Auth";
const initialState = {
  userInfo: null,
};

export default (state = initialState, action) => {
  switch (action.type) {
    case SET_UserDetails:
      return {
        userInfo: action.Userdata,
      };
    default:
      return state;
  }
};

```

Вміст файлу actions\Videos.js

```

import { db, auth } from "../../Config/FirebaseConfig";
import {
  collection,
  addDoc,
  getDocs,
  getDoc,
  doc,
  arrayUnion,
  arrayRemove,
  updateDoc,
  serverTimestamp,
  query,
  where,
} from "firebase/firestore";
import Video from "../../model/Video";
import User from "../../model/UserDetails";
export const CREATE_Video = "CREATE_Video";
export const CREATE_Comment = "CREATE_Comment";
export const CREATE_Like = "CREATE_Like";
export const REMOVE_Like = "REMOVE_Like";
export const CREATE_Dislike = "CREATE_Dislike";
export const REMOVE_DisLike = "REMOVE_DisLike";
export const SET_Videos = "SET_Video";
export const SET_Channel_Videos = "SET_Channel_Videos";
export const SET_RelatedVideos = "SET_RelatedVideos";
export const SET_SearchVideos = "SET_SearchVideos";
export const SET_Suscribers = "SET_Suscribers";
export const SET_VideoDetails = "SET_VideoDetails";
export const SET_OwnerVidDetails = "SET_OwnerVidDetails";
const capitalizeFirstWords = (string) => {
  return string.replace(/(?:^|\s)\S/g, function (a) {
    return a.toUpperCase();
  });
};
export const Create_Video = (
  title,
  descriptions,
  publicity,
  Categories,
  duration,
  thumbnail,
)

```

```
filePath,  
Usersname,  
Userpfp  
) => {  
  return async (dispatch) => {  
    try {  
      const VideoRef = addDoc(collection(db, "Videos"), {  
        ownerId: auth.currentUser.uid,  
        title: capitalizeFirstWords(title),  
        descriptions: descriptions,  
        duration: duration,  
        thumbnail: thumbnail,  
        filePath: filePath,  
        publicity: publicity.value,  
        Categories: Categories,  
        Usersname: Usersname,  
        Userpfp: Userpfp,  
        views: [],  
        timestamp: serverTimestamp(),  
        comments: [],  
        likes: [],  
        dislikes: [],  
      });  
      dispatch({  
        type: Create_Video,  
        VideoData: {  
          id: VideoRef.id,  
          ownerId: auth.currentUser.uid,  
          title: title,  
          descriptions: descriptions,  
          duration: duration,  
          thumbnail: thumbnail[0],  
          filePath: filePath,  
          publicity: publicity.value,  
          Categories: Categories,  
          Usersname: Usersname,  
          Userpfp: Userpfp,  
          views: [],  
          timestamp: new Date(),  
          comments: [],  
          likes: [],  
          dislikes: [],  
        },  
      });  
    } catch (error) {  
      console.error("Error adding video to database: ", error);  
    }  
  };  
};
```

```

    },
  });
} catch {
  throw new Error("Something went wrong!");
}
};

};

export const Update_Video = (
  name,
  description,
  publicity,
  thumbnail,
  VideoId
) => {
  return async (dispatch) => {
    try {
      console.log(thumbnail);
      const VidRef = doc(db, "Videos", VideoId);
      await updateDoc(VidRef, {
        title: name,
        descriptions: description,
        publicity: publicity,
        thumbnail: thumbnail,
      });
    } catch (error) {
      console.error(error);
      throw new Error("Something went wrong!");
    }
  };
};

export const Create_Comment = (VideoId, Comment, userPfp, name) => {
  return async (dispatch) => {
    try {
      const userId = auth.currentUser.uid;
      const VidRef = doc(db, "Videos", VideoId);
      updateDoc(VidRef, {
        comments: arrayUnion({
          VideoId,
          userId,
          userPfp,
          name,
          Comment,
        })
      });
    } catch (error) {
      console.error(error);
      throw new Error("Something went wrong!");
    }
  };
};

```

```

    timestamp: new Date(),
  }),
});

dispatch({
  type: CREATE_Comment,
  CommentData: {
    VideoId,
    userId,
    userPfp,
    name,
    Comment,
    timestamp: new Date(),
  },
});

} catch (err) {
  console.log(err);
  throw new Error("Something went wrong!");
}

};

};

export const Create_Like = (VideoId) => {
  return async (dispatch) => {
    try {
      const userId = auth.currentUser.uid;
      const VidRef = doc(db, "Videos", VideoId);
      updateDoc(VidRef, {
        likes: arrayUnion(userId),
      });
      dispatch({
        type: CREATE_Like,
        userId: userId,
      });
    } catch (err) {
      console.log(err);
      throw new Error("Something went wrong!");
    }
  };
};

export const Remove_Like = (VideoId) => {
  return async (dispatch) => {
    try {
      const userId = auth.currentUser.uid;

```

```

const VidRef = doc(db, "Videos", VideoId);
updateDoc(VidRef, {
  likes: arrayRemove(userId),
});
dispatch({
  type: REMOVE_Like,
  userId: userId,
});
} catch (err) {
  console.log(err);
  throw new Error("Something went wrong!");
}

};

export const Remove_DisLike = (VideoId) => {
  return async (dispatch) => {
    try {
      const userId = auth.currentUser.uid;
      const VidRef = doc(db, "Videos", VideoId);
      updateDoc(VidRef, {
        dislikes: arrayRemove(userId),
      });
      dispatch({
        type: REMOVE_DisLike,
        userId: userId,
      });
    } catch (err) {
      console.log(err);
      throw new Error("Something went wrong!");
    }
  };
};

export const Create_DisLike = (VideoId) => {
  return async (dispatch) => {
    try {
      const userId = auth.currentUser.uid;
      const VidRef = doc(db, "Videos", VideoId);
      updateDoc(VidRef, {
        dislikes: arrayUnion(userId),
      });
      dispatch({
        type: CREATE_Dislike,
      });
    }
  };
};

```

```

    userId: userId,
  });
} catch (err) {
  console.log(err);
  throw new Error("Something went wrong!");
}
};

};

export const fetchvideos = (category) => {
  return async (dispatch) => {
    try {
      const userId = auth.currentUser.uid;
      const VideosRef = collection(db, "Videos");
      let VideoSnapshot;
      if (!category || category === "All") {
        const q = query(VideosRef, where("publicity", "==", "Public"));
        VideoSnapshot = await getDocs(q);
      } else {
        const q = query(
          VideosRef,
          where("Categories", "array-contains", category),
          where("publicity", "==", "Public")
        );
        VideoSnapshot = await getDocs(q);
      }
      const videotobeloaded = [];
      VideoSnapshot.forEach((doc) => {
        videotobeloaded.push(
          new Video(
            doc.id,
            doc.data().ownerId,
            doc.data().title,
            doc.data().thumbnail,
            doc.data().descriptions,
            doc.data().duration,
            doc.data().views,
            doc.data().Categories,
            doc.data().publicity,
            doc.data().filePath,
            doc.data().Usersname,
            doc.data().Userpfp,
            doc.data().timestamp,
          )
        );
      });
      dispatch({
        type: "VIDEOS_FETCHED",
        payload: videotobeloaded,
      });
    } catch (err) {
      console.log(err);
      dispatch({
        type: "VIDEOS_FETCH_FAILED",
        payload: err.message,
      });
    }
  };
};

```

```

    doc.data().comments,
    doc.data().likes,
    doc.data().dislikes
)
);
});
dispatch({
  type: SET_Videos,
  videos: videotobeloaded,
  userVideos: videotobeloaded.filter((vid) => vid.OwnerId == userId),
});
} catch (error) {
  throw error;
}
};

export const fetchChannelVideos = (ChannelId) => {
  return async (dispatch) => {
    try {
      const VideosRef = collection(db, "Videos");
      let que;
      if (ChannelId === auth.currentUser.uid) {
        que = query(VideosRef, where("ownerId", "==", ChannelId));
      } else {
        que = query(
          VideosRef,
          where("ownerId", "==", ChannelId),
          where("publicity", "==", "Public")
        );
      }
      const querySnapshot = await getDocs(que);
      const ChannelVidstobeloaded = [];
      querySnapshot.forEach((doc) => {
        ChannelVidstobeloaded.push(
          new Video(
            doc.id,
            doc.data().OwnerId,
            doc.data().title,
            doc.data().thumbnail,
            doc.data().descriptions,
            doc.data().duration,
            doc.data().views,
          )
        );
      });
      dispatch({
        type: SET_Videos,
        videos: ChannelVidstobeloaded,
      });
    }
  };
};

```

```

    doc.data().Categories,
    doc.data().publicity,
    doc.data().filePath,
    doc.data().Usersname,
    doc.data().Userpfp,
    doc.data().timestamp,
    doc.data().comments,
    doc.data().likes,
    doc.data().dislikes
)
);
});

dispatch({
  type: SET_Channel_Videos,
  userVideos: ChannelVidstobeloaded,
});
} catch (error) {
  throw error;
}
};

};

export const fetchSearchvideos = (searchquery) => {
  return async (dispatch) => {
    const CaseSearchquery = capitalizeFirstWords(searchquery);
    try {
      const VideosRef = collection(db, "Videos");
      const q = query(
        VideosRef,
        where("title", ">=", CaseSearchquery),
        where("title", "<=", CaseSearchquery + "\uf8ff"),
        where("publicity", "==", "Public")
      );
      const querySnapshot = await getDocs(q);
      const Searchvideostobeloaded = [];
      querySnapshot.forEach((doc) => {
        Searchvideostobeloaded.push(
          new Video(
            doc.id,
            doc.data().ownerId,
            doc.data().title,
            doc.data().thumbnail,
            doc.data().descriptions,

```

```

    doc.data().duration,
    doc.data().views,
    doc.data().Categories,
    doc.data().publicity,
    doc.data().filePath,
    doc.data().Usersname,
    doc.data().Userfp,
    doc.data().timestamp,
    doc.data().comments,
    doc.data().likes,
    doc.data().dislikes
)
);
});
dispatch({
  type: SET_SearchVidoes,
  Searchvideos: Searchvideostobeloaded,
});
} catch (error) {
  console.log(error);
  throw error;
}
};
};

export const fetchrelatedvideos = (category) => {
  return async (dispatch) => {
    try {
      const VideosRef = collection(db, "Videos");
      const q = query(
        VideosRef,
        where("Categories", "array-contains-any", category),
        where("publicity", "==", "Public")
      );
      const querySnapshot = await getDocs(q);
      const relatedvideostobeloaded = [];
      querySnapshot.forEach((doc) => {
        relatedvideostobeloaded.push(
          new Video(
            doc.id,
            doc.data().ownerId,
            doc.data().title,
            doc.data().thumbnail,

```

```

    doc.data().descriptions,
    doc.data().duration,
    doc.data().views,
    doc.data().Categories,
    doc.data().publicity,
    doc.data().filePath,
    doc.data().Usersname,
    doc.data().Userpfp,
    doc.data().timestamp,
    doc.data().comments,
    doc.data().likes,
    doc.data().dislikes
)
);
});
dispatch({
  type: SET_RelatedVidoes,
  relatedvideos: relatedvideostobeloaded,
});
} catch (error) {
  console.log(error);
  throw error;
}
);
};

export const fetchvideo = (id) => {
  return async (dispatch) => {
    try {
      const VideoRef = doc(db, "Videos", id);
      const VideoSnap = await getDoc(VideoRef);
      const VideoDetail = new Video(
        id,
        VideoSnap.data().ownerId,
        VideoSnap.data().title,
        VideoSnap.data().thumbnail,
        VideoSnap.data().descriptions,
        VideoSnap.data().duration,
        VideoSnap.data().views,
        VideoSnap.data().Categories,
        VideoSnap.data().publicity,
        VideoSnap.data().filePath,
        VideoSnap.data().Usersname,

```

```

VideoSnap.data().Userpfp,
VideoSnap.data().timestamp,
VideoSnap.data().comments,
VideoSnap.data().likes,
VideoSnap.data().dislikes
);
dispatch({
  type: SET_VideoDetails,
  video: VideoDetail,
  id: id,
});
} catch (error) {
  throw error;
}
};

export const fetchUserDetails = (OwnerId) => {
  return async (dispatch) => {
    try {
      const UserDocRef = doc(db, "Users", OwnerId);
      const Usersnap = await getDoc(UserDocRef);
      const Usertobeloaded = new User(
        OwnerId,
        Usersnap.data().name,
        Usersnap.data().profileImage,
        Usersnap.data().initials,
        Usersnap.data().Suscribers
      );
      dispatch({
        type: SET_OwnerVidDetails,
        Userdata: Usertobeloaded,
      });
    } catch (error) {
      throw error;
    }
  };
};

export const loadSubscriptions = () => {
  return async (dispatch) => {
    try {
      const userId = auth.currentUser.uid;

```

```

const UsersRef = collection(db, "Users");
const q = query(UsersRef, where("Suscribers", "array-contains", userId));
const querySnapshot = await getDocs(q);
const Suscriberstobeloaded = [];
querySnapshot.forEach((doc) => {
  Suscriberstobeloaded.push(
    new User(
      doc.id,
      doc.data().name,
      doc.data().profileImage,
      doc.data().initials,
      doc.data().Suscribers
    )
  );
});
dispatch({
  type: SET_Suscribers,
  Suscribers: Suscriberstobeloaded,
});
} catch (error) {
  throw error;
}
};

export const Subscribe = (OwnerId) => {
  return new Promise((resolve, reject) => {
    try {
      const userId = auth.currentUser.uid;
      const VidOwnerRef = doc(db, "Users", OwnerId);
      updateDoc(VidOwnerRef, {
        Suscribers: arrayUnion(userId),
      });
      resolve("Suscribed !!!");
    } catch (error) {
      reject(Error("Failed :< didn't work!"));
    }
  });
};

export const UnSubscribe = (OwnerId) => {
  return new Promise((resolve, reject) => {
    try {
      const userId = auth.currentUser.uid;

```

```

const VidOwnerRef = doc(db, "Users", OwnerId);
updateDoc(VidOwnerRef, {
  Suscribers: arrayRemove(userId),
});
console.log("Unsubscribed");
resolve("UnSubscribed !!!");
} catch (error) {
  reject(Error("Failed :< didn't work!"));
}
});
};

export const SetView = (VideoId, Ip) => {
  return new Promise((resolve, reject) => {
    try {
      const VidRef = doc(db, "Videos", VideoId);
      updateDoc(VidRef, {
        views: arrayUnion(Ip.ip),
      });
      resolve("Subscribed !!!");
    } catch (error) {
      reject(Error("Failed :< didn't work!"));
    }
  });
};

```

Вміст файлу \actions\auth.js

```

import { db, auth } from "../../Config/FirebaseConfig";
import { getDoc, doc, setDoc } from "firebase/firestore";
import User from "../../model/UserDetails";
export const SET_UserDetails = "SET_UserDetails";
export const SET_Suscribers = "SET_Suscribers";
export const fetchUserDetails = () => {
  return async (dispatch) => {
    const userId = auth.currentUser.uid;
    const UserDocRef = doc(db, "Users", userId);
    const Usersnap = await getDoc(UserDocRef);
    if (Usersnap.exists()) {
      const Usertobeloaded = new User(
        userId,
        Usersnap.data().name,
        Usersnap.data().profileImage,
        Usersnap.data().initials,
        Usersnap.data().Suscribers
      );
      dispatch({
        type: SET_UserDetails,
        payload: Usertobeloaded
      });
    }
  };
};

```

```
    );
    dispatch({
      type: SET_UserDetails,
      Userdata: Usertobeloaded,
    });
  } else {
    console.log("No such User!");
  }
};
```

Вміст файлу \model\Videos.js

```
class Video {  
    constructor(  
        id,  
        OwnerId,  
        name,  
        thumbnail,  
        description,  
        duration,  
        views,  
        category,  
        publicity,  
        filepath,  
        Usersname,  
        Userpf,  
        timestamp,  
        comments,  
        likes,  
        dislikes  
    ) {  
        this.id = id;  
        this.name = name;  
        this.OwnerId = OwnerId;  
        this.thumbnail = thumbnail;  
        this.description = description;  
        this.duration = duration;  
        this.views = views;  
        this.category = category;  
        this.publicity = publicity;  
        this.filepath = filepath;  
        this.Usersname = Usersname;  
        this.Userpf = Userpf;  
    }  
}
```

```

this.timestamp = timestamp;
this.comments = comments;
this.likes = likes;
this.dislikes = dislikes;
}
}
export default Video;

```

Вміст файлу \model\UserDetails.js

```

class User {
constructor(id, name, profileImage, initials, Suscribers) {
this.id = id;
this.name = name;
this.profileImage = profileImage;
this.initials = initials;
this.Suscribers = Suscribers;
}
}
export default User;

```

Вміст файлу \model\comments.js

```

class Comment {
constructor(VideoId, userId, name, profileImage, Comment, timestamp) {
this.name = name;
this.userPfp = profileImage;
this.Comment = Comment;
this.userId = userId;
this.VideoId = VideoId;
this.timestamp = timestamp;
}
}
export default Comment;

```

Вміст файлу \context\UserAuthContext.js

```

import React, { useContext, useState, useEffect } from "react";
import {
createUserWithEmailAndPassword,
signInWithEmailAndPassword,
onAuthStateChanged,
signOut,
GoogleAuthProvider,
signInWithPopup,
sendPasswordResetEmail,
confirmPasswordReset,
sendSignInLinkToEmail,

```

```

isSignInWithEmailLink,
signInWithEmailLink,
} from "firebase/auth";
import { doc, setDoc } from "firebase/firestore";
import { db, auth } from "../Config/FirebaseConfig";
const AuthContext = React.createContext();
export const useAuth = () => {
  const auth = useContext(AuthContext);
  return { ...auth, isAuthenticated: auth.currentUser != null };
};

export function AuthProvider({ children }) {
  const [CurrentUser, setCurrentUser] = useState();
  const [loading, setLoading] = useState(true);

  useEffect(() => {
    const unsubscribe = onAuthStateChanged(auth, (user) => {
      console.log(user);
      setCurrentUser(user);
      setLoading(false);
    });
    return unsubscribe;
  }, []);
  const SignupUser = (email, password, name) => {
    return createUserWithEmailAndPassword(auth, email, password).then(
      (resp) => {
        if (resp.user) {
          CreateFireStoreUser(
            resp.user,
            name,
            "https://cdn-icons-png.flaticon.com/512/149/149071.png"
          );
        }
      }
    );
  };
  const CreateFireStoreUser = (user, name, profileImage) => {
    const UsersRef = doc(db, "Users", user.uid);
    setDoc(UsersRef, {
      name: name,
      profileImage: profileImage,
      initials: name[0] + name[name.length - 1],
      Subscribers: [],
    });
  };
}

```

```

}).then(() => {
  console.log("added User");
});

};

const LogInUser = (email, password) => {
  return signInWithEmailAndPassword(auth, email, password);
};

const SendEmailVerification = () => {
  const actionCodeSettings = {
    url: "http://localhost:3000",
    handleCodeInApp: true,
  };
  return sendSignInLinkToEmail(auth, CurrentUser.email, actionCodeSettings);
};

const VerifyEmailLink = () => {
  if (isSignInWithEmailLink(auth, window.location.href)) {
    return signInWithEmailLink(auth, CurrentUser.email);
  }
};

const SignInWithGoogle = () => {
  const provider = new GoogleAuthProvider();
  return signInWithPopup(auth, provider);
};

const forgotPassword = (email) => {
  // This function is not used in any files till YET
  return sendPasswordResetEmail(auth, email, {
    url: "http://localhost:3000/login",
  });
};

const ResetPassword = (oobcode, newPassword) => {
  return confirmPasswordReset(auth, oobcode, newPassword);
};

const logout = () => {
  return signOut(auth);
};

const value = {
  CurrentUser,
  SignupUser,
  LogInUser,
  logout,
  SignInWithGoogle,
  forgotPassword,
}

```

```

    ResetPassword,
    CreateFireStoreUser,
    SendEmailVerification,
    VerifyEmailLink,
};

return (
  <AuthContext.Provider value={value}>
    {!loading && children}
  </AuthContext.Provider>
);
}

```

Вміст файлу \config\ FirebaseConfig.js

```

import { initializeApp } from "firebase/app";
import { getAuth } from "firebase/auth";
import { getFirestore } from "firebase/firestore";
const firebaseConfig = {
  apiKey: "AIzaSyCoqaTfAPXTyB9okrKNN8opZNLOlshC7ac",
  authDomain: "mydemoapp-c9a6a.firebaseio.com",
  projectId: "mydemoapp-c9a6a",
  storageBucket: "mydemoapp-c9a6a.appspot.com",
  messagingSenderId: "708439279811",
  appId: "1:708439279811:web:d1298c8a144e8d2f43fa76"
};
const app = initializeApp(firebaseConfig);
const db = getFirestore(app);
const auth = getAuth(app);
export { auth, db };

```

Вміст файлу \screens\watchscreen\watchscreen.js

```

import React, { useState, useEffect, useCallback } from "react";
import { Col, Row } from "react-bootstrap";
import { useSelector, useDispatch } from "react-redux";
import axios from "axios";
import { NotificationManager } from "react-notifications";
import { useParams } from "react-router-dom";
import { SpinnerCircular } from "spinners-react";
import { Helmet } from "react-helmet";
import VideoMetaData from "../../components/VideoMetaData/VideoMetaData";
import VideoHorizontal from "../../components/VideoHorizontal/VideoHorizontal";
import Comments from "../../components/comments/Comments";
import Videoplayer from "../../components/VideoPlayer/Videoplayer";
import * as VideoActions from "../../Store/actions/Videos";

```

```

function WatchScreen() {
  const [error, seterror] = useState();
  const [loading, setloading] = useState(false);
  const dispatch = useDispatch();
  const { id } = useParams();
  const videoDetails = useSelector((state) => state.Videos.video);
  const centeredItem = {
    height: "100vh",
    display: "flex",
    justifyContent: "center",
    alignItems: "center",
  };
  const loadVideoDetails = useCallback(async () => {
    seterror(null);
    try {
      await dispatch(VideoActions.fetchvideo(id));
    } catch (error) {
      seterror(error.message);
      console.log(error.message);
    }
  }, [dispatch, seterror]);
  useEffect(() => {
    if (error) {
      NotificationManager.error(error, "Error", 10000);
    }
  }, [error]);
  useEffect(() => {
    setloading(true);
    loadVideoDetails().then(() => {
      setloading(false);
    });
  }, [dispatch, loadVideoDetails, setloading]);
  const SetViews = useCallback(async () => {
    axios
      .get("https://api.ipify.org/?format=json")
      .then(async (res) => {
        seterror(null);
        VideoActions.SetView(id, res.data).catch((error) => {
          seterror(error.message);
        });
      })
      .catch((error) => {

```

```

        seterror(error);
        console.log(error);
    });
}, [dispatch, seterror, videoDetails]);
useEffect(() => {
    SetViews();
}, []);
if (loading) {
    return (
        <div style={centeredItem}>
            <SpinnerCircular color="#00BFFF" size={30} />
        </div>
    );
}
if (!loading && videoDetails === null) {
    return <div style={centeredItem}>Ми не можемо завантажити відео вибачте</div>;
}
if (error) {
    return (
        <div style={centeredItem}>
            Помилка!
            <button onClick={loadVideoDetails}>Спробуйте знову</button>
        </div>
    );
}
return (
    <div>
        <Helmet>
            <title>{videoDetails.name}</title>
        </Helmet>
        <Videoplayer
            vidsrc={videoDetails.filepath}
            duration={videoDetails.duration}
        />
        <Row>
            <Col lg={8}>
                <VideoMetaData
                    views={videoDetails.views}
                    title={videoDetails.name}
                    description={videoDetails.description}
                    OwnerId={videoDetails.OwnerId}
                    timestamp={new Date(videoDetails.timestamp.toDate()).toUTCString()}>
            </Col>
    </Row>

```

```

VideoId={id}
/>
<Comments
  VideoId={id}
  userPfp={videoDetails.Userpfp}
  name={videoDetails.Usersname}
/>
</Col>
<Col lg={4}>
  <VideoHorizontal category={videoDetails.category} VideoId={id} />
</Col>
</Row>
</div>
);
}

export default WatchScreen;

```

Вміст файлу \screens\verifyEmail\ verifyEmail.js

```

import React, { useEffect } from "react";
import { useLocation } from "react-router-dom";
import { useAuth } from "../../Contexts/Context";
const VerifyEmail = () => {
  const { SendEmailVerification } = useAuth();
  useEffect(() => {
    SendEmailVerification()
      .then(() => {
        alert("An email has been sent");
      })
      .catch((e) => {
        console.log(e);
      });
  }, []);
  return <div>Ви не верифіковані</div>;
};
export default VerifyEmail;

```

Вміст файлу \screens\UserActions\ UserActions.js

```

import React from "react";
import { useLocation } from "react-router-dom";
import ResetPassword from "../../components/ResetPassword/ResetPassword";
import EmailVerification from "../../components/EmailVerification/EmailVerification";
const useQuery = () => {
  return new URLSearchParams(useLocation().search);
};

```

```

const UserActions = () => {
  const query = useQuery();
  const mode = query.get("mode");
  const actionCode = query.get("oobCode");
  const continueUrl = new URL(query.get("continueUrl")).pathname;
  const lang = query.get("lang") || "en";
  const renderSwitch = () => {
    switch (mode) {
      case "resetPassword":
        return (
          <ResetPassword actionCode={actionCode} continueUrl={continueUrl} />
        );
      case "signIn":
        return (
          <EmailVerification
            actionCode={actionCode}
            continueUrl={continueUrl}>
        );
    }
  };
  return <div>{renderSwitch()}</div>;
};

export default UserActions;

```

Вміст файлу \screens\Upload\upload.js

```

import React, { useReducer, useCallback, useState, useMemo } from "react";
import { useDropzone } from "react-dropzone";
import { AiOutlineProfile } from "react-icons/ai";
import Select from "react-select";
import makeAnimated from "react-select/animated";
import axios from "axios";
import { NotificationManager } from "react-notifications";
import { useDispatch, useSelector } from "react-redux";
import { useNavigate } from "react-router-dom";
import "./_upload.scss";
import * as VideoActions from "../../Store/actions/Videos";
import Input from "../../components/Input/Input";
import { categories } from "../../categories";
const Private = [
  { value: "Public", label: "Публічне" },
  { value: "Private", label: "Приватне" },
];

```

```

const formReducer = (state, action) => {
  // It's just like a redux reducer but not connected to redux at all
  if (action.type === "FORM_INPUT_UPDATE") {
    // when we change any input
    const updatedValues = {
      // Change our inputValues state
      ...state.inputValues, // Return all other inputs values
      [action.input]: action.value, // But change the value of that specific input
    };
    const updateValidities = {
      // Change our inputValidities state
      ...state.inputValidities,
      [action.input]: action.isValid,
    };
    let FormisValid = false; // Initially its false
    for (const key in updateValidities) {
      // If all inputs are valid then change it to true
      FormisValid = FormisValid && updateValidities[key];
    }
    return {
      formIsValid: FormisValid,
      inputValidities: updateValidities,
      inputValues: updatedValues,
    };
  }
  return state; // return our state
};

const baseStyle = {
  flex: 1,
  display: "flex",
  flexDirection: "column",
  alignItems: "center",
  padding: "20px",
  borderWidth: 2,
  borderRadius: 2,
  borderColor: "#eeeeee",
  borderStyle: "dashed",
  backgroundColor: "#fafafa",
  color: "#bdbdbd",
  outline: "none",
  transition: "border .24s ease-in-out",
};

```

```

const focusedStyle = {
  borderColor: "#2196f3",
};

const acceptStyle = {
  borderColor: "#00e676",
};

const rejectStyle = {
  borderColor: "#ff1744",
};

function Uplaod() {
  const animatedComponents = makeAnimated();
  const [publicity, setpublicity] = useState();
  const [Categories, setCategories] = useState();
  const [Files, setFiles] = useState();
  const dispatch = useDispatch();
  const navigate = useNavigate();
  const Userinfo = useSelector((state) => state.auth.userInfo);
  const {
    getRootProps,
    getInputProps,
    isFocused,
    isDragAccept,
    isDragReject,
    acceptedFiles,
  } = useDropzone({
    multiple: false,
    maxSize: 800000000,
    onDrop: (acceptedfile) => {
      setFiles(acceptedfile);
    },
    accept: { "video/*": [] },
  });
  const [formState, dispatchformState] = useReducer(formReducer, {
    // Our useReducer describing all our states
    inputValues: {
      Title: "",
      descriptions: "",
    },
    inputValidities: {
      Title: false,
      descriptions: false,
    },
  });
}

```

```

formIsValid: false,
});

const inputChangeHandler = useCallback(
  // Our inputChangeHandler func
  (inputIdentifier, inputValue, inputisValid) => {
    dispatchformState({
      type: "FORM_INPUT_UPDATE",
      value: inputValue,
      isValid: inputisValid,
      input: inputIdentifier,
    });
  },
  [dispatchformState]
);

const UpplaodHandler = async () => {
  let variable;
  let thumbnail;
  let duration;
  let formData = new FormData();
  formData.append("file", Files[0]);
  axios({
    method: "POST",
    url: "http://localhost:5000/api/video/uploadfiles",
    headers: { "Content-Type": "multipart/form-data" },
    data: formData,
  }).then((response) => {
    if (response.data.success) {
      variable = {
        filePath: response.data.filepath,
        fileName: response.data.fileName,
      };
      NotificationManager.success(
        "Файл завантажено....Генерація мініатюри...",
        "успіх"
      );
      axios({
        method: "POST",
        url: "http://localhost:5000/api/video/thumbnail",
        data: variable,
      })
        .then((response) => {
          if (response.data.success) {
            ...
          }
        })
        ...
    }
  });
}

```

```

        thumbnail = response.data.Thumbsfilepath;
        duration = response.data.fileDuration;
        NotificationManager.success(
            "Мініатюру згенеровано успішно!",
            "успіх"
        );
    } else {
        NotificationManager.error(response.data.err, "Error", 10000);
    }
})
.finally(() => {
    onclickHandler(variable, thumbnail, duration);
});
} else {
    NotificationManager.error(response.data.err, "Error", 10000);
}
);
};

const onclickHandler = async (variable, thumbnail, duration) => {
let categories = Categories.map((category) => category["label"]);
await dispatch(
VideoActions.Create_Video(
    formState.inputValues.Title,
    formState.inputValues.descriptions,
    publicity,
    categories,
    duration,
    `http://localhost:5000/${thumbnail}`,
    variable.filePath,
    Userinfo.name,
    Userinfo.profileImage
)
);
navigate("/", { replace: true });
};

const style = useMemo(
() => ({
    ...baseStyle,
    ...(isFocused ? focusedStyle : {}),
    ...(isDragAccept ? acceptStyle : {}),
    ...(isDragReject ? rejectStyle : {}),
}),
);

```

```

[isFocused, isDragAccept, isDragReject]
);

return (
<div className="main">
  <div className="main_Container">
    <section>
      <div
        {...getRootProps({ style })}
        className="main_file-upload-wrapper"
      >
        <input {...getInputProps()} />
        {!isDragReject &&
          "Перетягніть сюди файл або натисніть та виберіть"
        }
        {isDragReject && "увага! формат файлу не підтримується"}
      </div>
      <ul className="list-group mt-2">
        {acceptedFiles.length > 0 &&
          acceptedFiles.map((acceptedFile) => (
            <li className="list-group-item list-group-item-success">
              {acceptedFile.name}
            </li>
          )))
      </ul>
      <Input
        id="Title" // field Id
        label="Введіть називу" // Label for our Input
        minLength={5} // A minimum length of 5 or else error
        initialValue="" // Initial Value for our input. i.e ""
        required // It is a required field
        onChange={inputChangeHandler} // Do this when text inout value changes
        initiallyValid="false"
        Icon={AiOutlineProfile}
      />
      <Input
        id="descriptions" // field Id
        label="Напишіть опис, не менше 15 символів" // Label for our Input
        textarea
        initialValue="" // Initial Value for our input. i.e ""
        minLength={15} // A minimum length of 10 or else error
        required // It is a required field
        onChange={inputChangeHandler} // Do this when text inout value changes
      </Input>
    </section>
  </div>
</div>

```