K-Fitness App-> A modern responsive React fitness exercises app with the functionality to choose exercise categories and specific muscle groups browse more than a thousand exercises with practical examples pagination exercise details pulling related videos from YouTube displaying similar exercises and much more. Alongside building the App, I have learned a lot of folder and file structure and hooks, a stylish user interface using material UI creation, and API data fetching techniques from unlimited sources using Rapid API. Developing Languages, Tools, and Techniques Needed:

Vscode 1.74 https://code.visualstudio.com/updates/v1 74

npm/npx https://www.npmis.com/package/npx

React Native JS https://reactjs.org/
JavaScript https://www.javascript.com/

ES7+ React/Redux/React-Native snippets

https://marketplace.visualstudio.com/items?itemName=dsznajder.es7-react-js-snippets

Yarn https://yarnpkg.com/

RapidAPI ExerciseDB https://rapidapi.com/justin-WFnsXH t6/api/exercisedb

ESLint v2.2.6 https://marketplace.visualstudio.com/items?itemName=dbaeumer.vscode-eslint

RapidAPI Youtube Search and Download

https://rapidapi.com/h0p3rwe/api/youtube-search-and-download

Prerequisites & Setups:

```
In Vscode Terminal, install all React App dependencies and packages by running:
npx create-react-app ./
Create index.js in src and setup imports and roots rendering:
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
    <App />
Create App.js in src and setup:
import React from 'react';
const App = () => {
    return (
        <div>App</div>
...export default App
Install needed dependencies:
yarn add @emotion/react
yarn add @emotion/react @emotion/styled
yarn add @mui/icons-material
yarn add @mui/material
npm install --save react-horizontal-scroll-menu
yarn add react-loader-spinner
npm i react-router-dom
```

Audit all installed dependencies to the latest version:

```
npm install --legacy-peer-deps
Start the web server at localhost:3000:
 npm start
Web server console error:
"Warning: You are importing createRoot from 'react-dom' which is not supported. You should
instead import it from 'react-dom/client'".
DEBUGGING: In index.js:
import ReactDOM from 'react-dom/client';
Synchronous Developing Notes:
NavBar:
Customize NavBar sections styles in Navbar.js:
   <Stack direction="row"
             justifyContent="space-around"
             sx=\{\{
                  gap: { sm: '122px', xs: '40px' },
                  mt: { sm: '32px', xs: '20px' },
                  justifyContent: 'none'
             } px = "20px">
             <Link to="/">
                  <img src={Logo} alt="logo" style={{</pre>
                      width: '48px',
                      height: '48px', margin: '0 20px'
                  }} />
navbar home and exercise customized.PNG
Hero Banner Customization:
Customize hero banner get better design in HeroBanner.js:
</Typography>
             <Button variant="contained"
                  color="error" href="#exercises"
                  sx=\{\{
                       backgroundColor: '#ff2625',
                      padding: '10px'
                  } }
             >Explore Exercises</Button>
             <Typography
hero banner well designed.PNG
Search Exercises Customization:
Customize hover search bar and button at footer in SearchExercises.js:
  <Button className="search-btn"
                       sx=\{\{
```

```
bgcolor: '#FF2625',
  color: '#fff',
  textTransform: 'none',
  width: { lg: '175px', xs: '80px' },
  fontSize: { lg: '20px', xs: '14px' },
  height: '56px',
  position: "absolute",
  right: '0'
}}
onClick={handleSearch}>
```

search bar button and text input are customized.PNG

Fetch Data:

Obtain API keys and needed data from RapidAPI, fetch search exercises data in SearchExercises.js:

Now test SEARCH button, data fetched at localhost:3000/#exercises:

rapid api search data fetched.PNG

Install scroll menu:

```
npm install react-horizontal-scrolling-menu
```

Body Parts Components:

Eslint Error. DEBUGGING: To disable Eslint error from popping out, install above Vscode Eslint extension and right click to Disable Eslint at workplace.

Eslint Compiled Error: XXX is missing in props validation react/prop-types. DEBUGGING: At certain file, do import PropTypes from 'prop-types'; Then right before the export default FILENAME, do FILENAME.propTypes = {XXX: PropTypes.XXX'S DATA TYPE [REFRESH CONSOLE ELEMENT TO SEE].isRequired,...}

Implement Body parts exercises components as buttons in BodyPart.js:

```
type="button"
    alignItems="center"
    justifyContent="center"
    className="bodyPart-card"
    sx={bodyPart === item ? { borderTop: '4px solid #FF2625', background: '#fff', borderBottomLeftRadius: '20px', width: '270px',
```

```
height: '282px', cursor: 'pointer', gap: '47px' } : { background:
'#fff', borderBottomLeftRadius: '20px', width: '270px', height:
'282px', cursor: 'pointer', qap: '47px' }}
        onClick={() => {
             setBodyPart(item);
             window.scrollTo({ top: 1800, left: 100, behavior: 'smooth'
});
body parts components are well customized.PNG
Exercise Cards Components:
Fetch exercise GIF cards binding data in ExerciseCard.js:
const ExerciseCard = ({ exercise }) => {
    return (
        <Link className="exercise-card"
to={\'exercise/\$\{exercise.id\}\'}>
             <img src={exercise.gifUrl} alt={exercise.name}</pre>
loading="lazy" />
        </Link>
Now search for "legs" and all legs results GIF exercises cards showed:
legs cards gif results showed.PNG
Customize the cards buttons:
  <Button sx={{
          ml: '21px', color: '#fff', background: '#ffa9a9',
       fontSize: '14px', borderRadius: '20px', textTransform:
'capitalize'
                 }}>
           {exercise.bodyPart}
   </Button>
cards with two buttons showed.PNG
Now fetch each card's title:
  </Stack>
     <Typography ml="21px" color="#000" fontWeight="bold" mt="11px"
         pb="10px" textTransform="capitalize" fontSize="24px">
        {exercise.name}
     </Typography>
cards titles showed.PNG
Now implement the showing results slices pages in Exercises.js:
  const [currentPage, setCurrentPage] = useState(1);
    const exercisesPerPage = 9;
    const indexOfLastExercise = currentPage * exercisesPerPage;
    const indexOfFirstExercise = indexOfLastExercise -
exercisesPerPage;
```

```
const currentExercises = exercises.slice(indexOfFirstExercise,
indexOfLastExercise);
    const paginate = (e, value) => {
page slices showed.PNG
Home page is finalized.
Exercise Details:
Fetch exercise cards details in Detail.js:
  <Stack sx={{ qap: { lq: '35px', xs: '20px' } }}>
                 <Typography variant="h3">
                     {name}
                 </Typography>
                 <Typography variant="h6">
                     Exercises keep you strong. {name} { ` `}
                     is one of the best exercises to target your
{target}. It will help you
                     improve your mood and gain energy.
                 </Typography>
exercise cards details gif fetched.PNG
Fetch more related videos of one specific video in ExerciseVideos.js:
  key={index}
                       className="exercise-video"
href={ `https://www.youtube.com/watch?v=${item.video.videoId} `}
                          target=" blank"
                          rel="noreferrer"
                          <img src={item.video.thumbnails[0].url}</pre>
alt={item.video.title} />
                          <Box>
                              <Typography variant="h5" color="#000">
                                  {item.video.title}
                              </Typography>
                              <Typography variant="h6" color="#000">
                                  {item.video.channelName}
                              </Typography>
                          </Box>
```

more related videos on youtube of one specific video.PNG

```
Similar Exercises:
```

```
To fetch the similar videos attached to a specific video, in SimilarExercises:
 <Box sx={{ mt: { lg: '100px', xs: '0' } }}>
      <Typography variant="h3" mb={5}>Exercises that target the same
muscle group</Typography>
      <Stack direction="row" sx={{ p: '2', position: 'relative' }}>
        {targetMuscleExercises.length ?
          <HorizontalScrollbar data={targetMuscleExercises} />
          : <Loader />
        }
similar exercises videos fetched.PNG
Also fetch exercises with the same equipments:
 </Stack>
      <Typography variant="h3" mb={5}>Exercises that target the same
equipments</Typography>
      <Stack direction="row" sx={{ p: '2', position: 'relative' }}>
        {equipmentExercises.length ?
          <HorizontalScrollbar data={equipmentExercises} />
          : <Loader />
exercises with same equipment shows as well.PNG
Footer Customization:
In Footer.js:
  <Stack gap="40px" alignItems="center" px="40px" pt="24px">
                 <img src = {Logo} alt = "logo"/>
                 <Typography variant = "h5" pb ="40px" mt="20px">
                     Made with loves by Krystal Zhang
                 </Typography>
```

footer done.PNG