Full Stack Development with MERN

Frontend Development Report

| Date | |
|---------------|--|
| Team ID | |
| Project Name | FitFlex :Your Personal Fitness Companion |
| Maximum Marks | |

Project Title: SB Fitzzz..

Date: [Date of Report]

Prepared by: Aarti Mallayya Swami

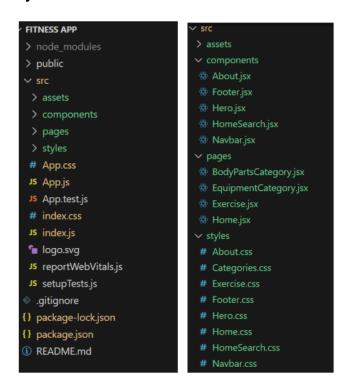
Objective

The objective of this report is to document the frontend development progress and key aspects of the user interface (UI) implementation for the **SB Fitzz** project. This project is focused on providing a dynamic and engaging fitness platform with various exercise categories, workout routines, and features to help users maintain a healthy lifestyle.

Technologies Used

- Frontend Framework: React.js
- **State Management:** [Redux/Context API, if applicable]
- **UI Framework/Libraries: Material-UI, Bootstrap**, or **Tailwind CSS** (for responsive design and UI components)
- API Libraries: Axios (for fetching exercise data, videos, etc.)

Project Structure



Routing

- **/home:** Landing page showcasing the app's features, introduction to fitness, and popular exercises.
- /category/:id: A category page displaying exercises under different fitness categories (e.g., Strength Training, Yoga, Cardio).
- /exercise/:id: Detailed exercise page with instructions, images, and related videos.
- **/profile:** User profile management page, where users can save their favorite exercises, track their progress, etc.**State Management (If Applicable)**

State management is achieved using [Redux/Context API].

• Fetching available Equipment list & Body parts list

```
const bodyPartsOptions = {
  method: 'GET',
  url: 'https://exercisedb.p.rapidapi.com/exercises/bodyPartList',
    'X-RapidAPI-Key': 'place your api key',
    'X-RapidAPI-Host': 'exercisedb.p.rapidapi.com'
const equipmentOptions = {
 method: 'GET',
  url: 'https://exercisedb.p.rapidapi.com/exercises/equipmentList',
  headers: {
    'X-RapidAPI-Key': 'place your api key',
    'X-RapidAPI-Host': 'exercisedb.p.rapidapi.com'
useEffect(() => {
  fetchData();
}, [])
const fetchData = async () =>{
  try {
   const bodyPartsData = await axios.request(bodyPartsOptions);
    setBodyParts(bodyPartsData.data);
    const equipmentData = await axios.request(equipmentOptions);
    setEquipment(equipmentData.data);
  } catch (error) {
    console.error(error);
```

Fetching exercises under particular category

Fetching Exercise details

```
useEffect(()=>{
   if (id){
       fetchData(id)
},[])
const fetchData = async (id) => {
   const options = {
    method: 'GET',
     url: https://exercisedb.p.rapidapi.com/exercises/exercise/${id}`,
     headers: {
        'X-RapidAPI-Key': 'ae40549393msh0c35372c617b281p103ddcjsn0f4a9ee43ff0',
       'X-RapidAPI-Host': 'exercisedb.p.rapidapi.com'
       const response = await axios.request(options);
       console.log(response.data);
       setExercise(response.data);
       fetchRelatedVideos(response.data.name)
    } catch (error) {
       console.error(error);
```

Fetching related videos from YouTube

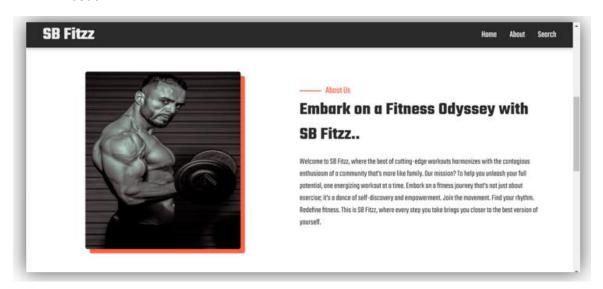
```
const fetchRelatedVideos = async (name)=>{
 console.log(name)
 const options = {
   method: 'GET',
   url: 'https://youtube-search-and-download.p.rapidapi.com/search',
   params: {
     query: `${name}`,
     upload date: 't',
     duration: 'l',
     type: 'v',
     sort: 'r'
   headers: {
      'X-RapidAPI-Key': 'ae40549393msh0c35372c617b281p103ddcjsn0f4a9ee43ff0',
      'X-RapidAPI-Host': 'youtube-search-and-download.p.rapidapi.com'
 try {
   const response = await axios.request(options);
   console.log(response.data.contents);
   setRelatedVideos(response.data.contents);
  } catch (error) {
   console.error(error);
```

User Interface (UI) Design

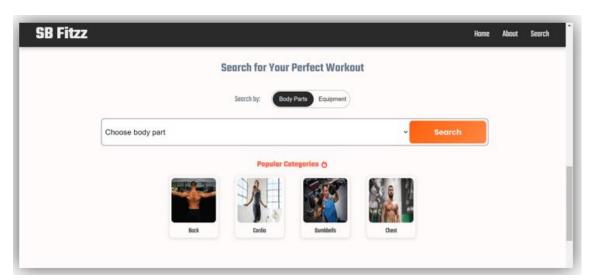
Hero component



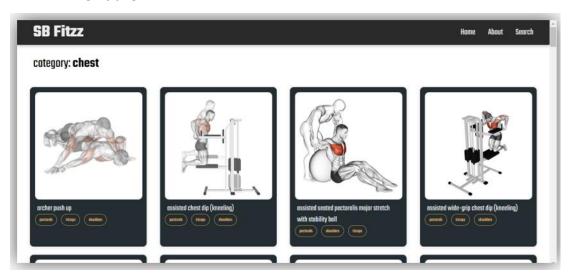
About



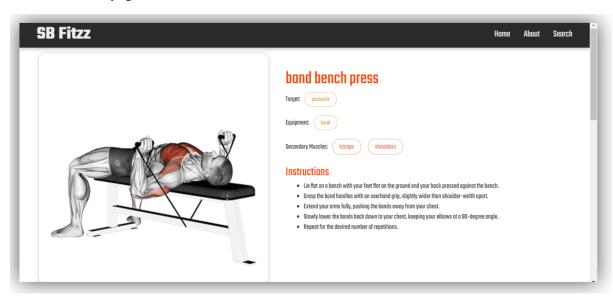
Search



Category page



Exercise page



Third-Party Integrations (If any)

- **Axios**: Used for making HTTP requests to external fitness APIs to fetch exercise data, video tutorials, and other relevant information.
- **YouTube API**: Integrated to fetch related exercise videos to enhance the user experience with video instructions.
- React Router: Used for routing between different pages of the application.
- Material-UI/Bootstrap/Tailwind CSS: Used for creating a responsive and aesthetically pleasing UI.