PROJECT DOCUMENTATION FITFLEX

1. INTRODUCTION:

• PROJECT TITLE: FITFLEX

• TEAM ID :NM2025TMID37036

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2. PROJECT OVERVIEW:

PURPOSE:

Fitflex is a fitness and wellness web application designed to help users track workouts, monitor progress, access diet plans, and maintain a healthy lifestyle. It enables users to register, log in, and manage personalized fitness goals while interacting with trainers through real-time communication.

FEATURES:

- User registration and login
- Personalized fitness dashboard
- Workout and diet tracking
- Trainer recommendations and guidance
- Chat support users and trainers
- Admin control panel

3. ARCHITECTURE:

- Fronted: React.js with Bootstrap and material UI
- Backend: Node.js and Express.js managing server logic and API endpoints

• Database: MongoDB stores user data, project information, applications, and chat messages

4. SETUP INSTRUCTIONS:

Prerequisites:

- Node.js
- MongoDB
- Git
- React.js
- Express.js-Mongoose-Visual Studio Code

Installation Steps:

#clone the repository

Git clone<repository-link>

#Install client dependencies

Cd client

Npm install

#Install server dependencies

cd../server

npm install

5. FOLDER STRUCTURE:

In this project, we've split the files into 3 major Folders, Components, Pages and Styles. In the page folder, we store the files that act as page at different URLs in the application. The components folder stores all the files, that return the small components in the applications. All the styling CSS files will be stored in the style folder.

FitFlex/

| - - client/

|--- components/

```
| |--- pages/
|--- server/
| |--- routes/
| |--- modules/
| |--- controllers/
6. RUNNING THE APPLICATION:
Frontend:
```

cd client

npm start

Backend:

cd server

npm start

7. API DOCUMENTATION:

User:

- POST /api/user/register
- POST /api/user/login

Workout:

- POST /api/workout/create
- GET /api/workout/:id

Diet:

- POST /api/diet/add
- GET /api/diet/:userId

Chat:

- POST /api/chat/send
- GET /api/chat/:userId

8. AUTHENTICATION:

- JWT-basedauthentication for secure login
- Middleware protects private routes

9. USER INTERFACE:

- Landing Page
- User Fitness Dashboard
- Trainer Dashboard
- Admin Panel
- Workout & Diet Tracking Page

10. TESTING:

- Manual testing during milestones
- Tools: Postman, Chrome DevTools

11. SCREENSHOTS:

Output Pictures:

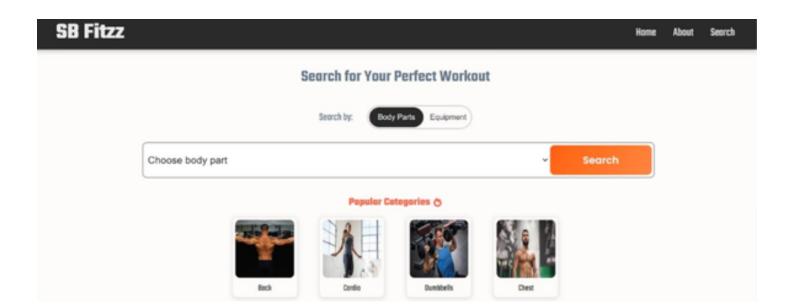




----- About Us

Embark on a Fitness Odyssey with SB Fitzz..

Welcome to SB Fitzz, where the best of cutting-edge workouts harmonizes with the contagious enthusiasm of a community that's more like family. Our mission? To help you unleash your full potential, one energizing workout at a time. Embark on a fitness journey that's not just about exercise; it's a dance of self-discovery and empowerment. Join the movement. Find your rhythm. Redefine fitness. This is SB Fitzz, where every step you take brings you closer to the best version of yourself.



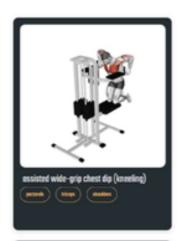
SB Fitzz Home About Seorch

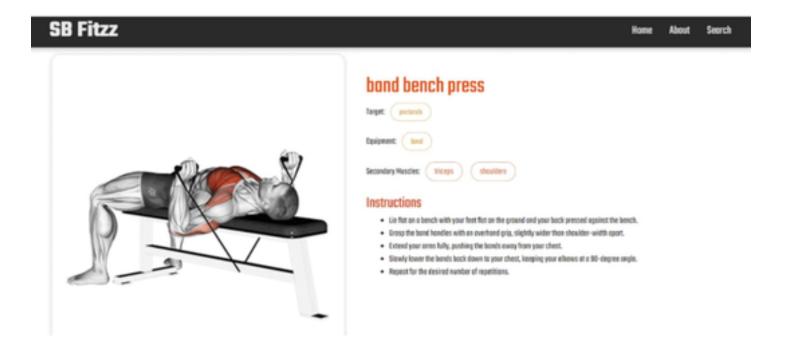
category: chest











12. KNOWN ISSUES:

- Limited trainer availability
- Basic UI for first release

13. FUTURE ENHANCEMENTS:

- AI-based fitness recommendations
- Mobile application support
- Wearable device integration
- Advanced analytics for progress tracking.