# PROJECT DOCUMENTATION

#### **FITFLEX**

## 1. INTRODUCTION

• Project Title: Fitflex

• Team ID: NM2025TMID37028

• Team Leader: Selvadharshini.M

#### Selvadharshini701@gmail.com

• Team members:

- Shobana.K <a href="mailto:shobanak2006@gmail.com">shobana.K <a href="mailto:shobanak2006@gmail.com">shobana.K <a href="mailto:shobanak2006@gmail.com">shobanak2006@gmail.com</a>
- Shajeena.R <u>sajnapubg97@gmail.com</u>
- Shameera Farhana.R <u>samifarahana0803@gmail.com</u>

#### 2.ROJECT OVERVIEW

#### • Purpose:

Fitflex is a fitness and wellness platform that helps users track workouts, manage diet plans, and connect with trainers through a seamless and interactive interface.

- Features:
- Workouts tracking and progress monitoring.
- Personalized diet recommendations.
- Trainer-client chat system.
- Goal setting and achievement tracker.
- Admin control panel.

#### 3.ARCHITECTURE

- Frontend: React.js with Bootstrap and Material UI
- Backend: Node and Express for server logic and API endpoints
- Database: MongoDB to store user profiles, workout data, diet plans, and chat history

## **4.SETUP INSTRUCTIONS**

- Prerequisites:
- Node.js
- MongoDB
- Tools:
- Git
- React.js
- Express.js
- Mongoose
- Visual Studio Code
- Installation Steps:

# clone the repository git clone <repo-link>

# Install client dependencies cd client npm install

```
# Install server dependencies cd ../server npm install
```

# **5.FOLDER STRUCTURE**

```
Fitflex
|--client/ #React frontend
| |-- components/
|
|--server/ #Node.js backend
|--routes/
|-models/
|--controllers/
```

# **6. Running the Application**

• Frontend:

Bash

cd client

# npm start

• Backend:

Bash

cd server

npm start

• Access: Visit <a href="http://localhost:3000">http://localhost:3000</a>

### 7.API Documentation

#### User:

- POST/api/user/register-Register a new user
- POST/api/user/login-User login

# **Workouts:**

- POST/api/workouts/create-add workout
- GET/api/workouts/:id-Get workout details

#### **Diet Plans:**

- POST/api/diet/create-Create diet plan
- GET/api/diet/:userId-Get diet plan by user

# Chats:

- POST/api/chat/send-Send message
- GET/api/chat/:userId-Get chat history

## 8. Authentication

- JWT-based authentication for secure login
- Middleware to protect private routes

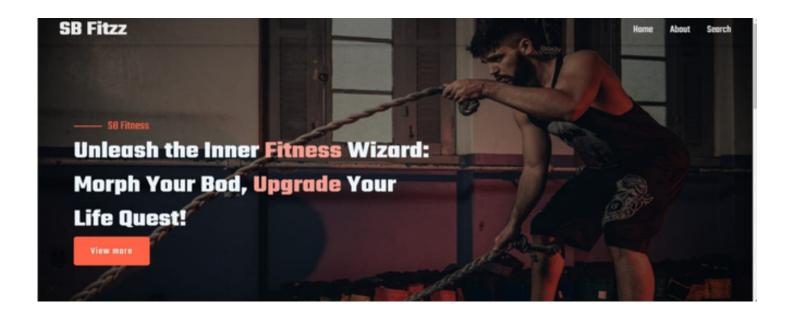
# 9. User interface

- Landing page
- User dashboard(workouts and diet)
- Trainer dashboard
- Admin panel
- Progress tracker page

# 10.Testing

- Manual testing during milestone
- Tools: postman, chrome dev tools

#### 11. Screenshot or demo



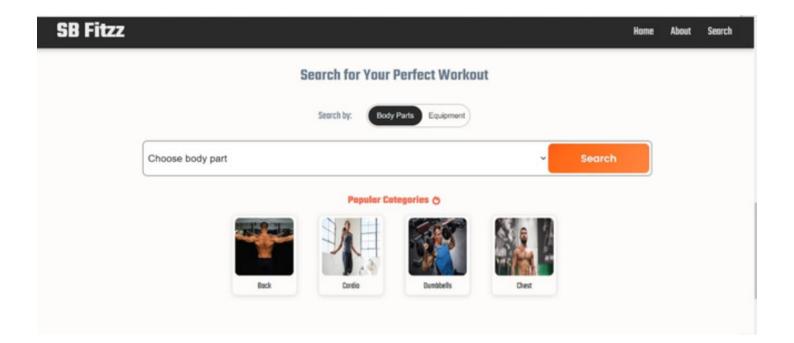
SB Fitzz Home About Search



---- About Us

# Embark on a Fitness Odyssey with SB Fitzz..

Welcome to SB Fitzz, where the beat 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.

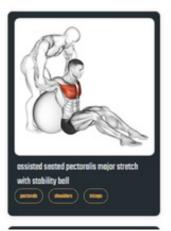


SB Fitzz Home About Search

#### category: chest









SB Fitzz Home About Search



| Bana Bonen broce | band | benc | h press |
|------------------|------|------|---------|
|------------------|------|------|---------|

Equipment book

Secondary Muscles: triceps shoulders

#### Store

#### Instructions

- Lie flot on a bench with your feet flat on the ground and your back pressed against the bench.
- . Grosp the band handles with an overhand grip, slightly wider than shoulder-width apart.
- Extend your arms fully, pushing the bands away from your chest.
- $\bullet\,$  Slowly lower the bands back down to your chest, keeping your elbows at a 90-degree angle.
- Repect for the desired number of repetitions.

## 12.Known issue

• To be updated during testing phase

#### 13. Future enhancements

- Mobile app integration
- AI-based workouts suggestions
- Social fitness community features