Project Title FitFlex - Fitnessand Wellness App

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1. Introduction

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- TeemI D: [NM2025TMTD 34848]
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2 Project O verview

FitFlex is a fitness and wellness platform that helps users create outsom work out plans, track nutrition, monitor goals, and stay motivated.

- Purpose Promotehealthy habits and lifestyle
- Features
- Workout planning
- Diet and calorietracker
- Weekly reports
- Mobileresponsive design

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3. A rehitecture

- Frontend: ReactJS with Bootstrap
- Backend: Nodej s Expressj s R EST A P I
- Database MongoD B for storing users workouts, meels goals

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4. Setup Instructions

- Prerequisites
- -Nodejs
- MongoD B
- -Tools
- Git
- -ReactJS
- MongoD B Compass/ V S Code
- Installation Steps
 - 1. Clonerepository
 - 2 Runnominstall
 - 3. Set up .env
 - 4. Start both servers

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5. Folder Structure

FitFlex/

```
/frontend/
       /backend/
           /models/
           /routes/
           /controllers/
6. Running the Application
- Frontend:
 npmstart
npimrun de/
 - Runson http://localhost:3000
7. API Documentation
 -POST /api/user/register
-POST /api/user/login
- Workout:
 -POST/api/workout/add
 - GET /api/workout/view
8. Authentication
- JWT-based securelogin
- Middlewarefor protected routes
9. User Interface
-Pages
-Login
 - Dashboard
 - Workout Tracker
 - Nutrition Page
- Profile
10. Testing
- Manual ŬI and API testing
- Tools Postman, De/Tools
11. Screenshots or Demo
(Add screenshots of login, dashboard, API responses)
12. Known I saues
- Delay in loading stats
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-Nopush notifications

- 13. F utureEnhancements Sync with fitness devices A dd community & challenges Weekly health tips