## **Project Documentation**

## 1 PROJECT TITLE: FITFLEX — FITNESS AND WELLNESS APP

- 1. Introduction
- Project Title: FitFlex
- Team ID: NM2025TMID34847
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## 2. Project Overview

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

- Purpose: Promote healthy habits and lifestyle
- Features:
- Workout planning
- Diet and calorie tracker
- Weekly reports
- Mobile-responsive design
- 3. Architecture
- Frontend: ReactJS with Bootstrap
- Backend: Node.js, Express.js REST API
- Database: MongoDB for storing users, workouts, meals, goals
- 4. Setup Instructions

- Prerequisites:
- Node.js
- MongoDB
- Tools:
- Git
- ReactJS
- MongoDB Compass / VS Code
- Installation Steps:
1. Clone repository
2. Run npm install
3. Set up .env
4. Start both servers
5. Folder Structure
FitFlex/
1
/frontend/
/backend/
/routes/
L—/controllers/
6. Running the Application
- Frontend:
npm start
- Backend:
npm run dev
- Runs on: http://localhost:3000

- User:
- POST /api/user/register
- POST /api/user/login
- Workout:
- POST /api/workout/add
- GET /api/workout/view
8. Authentication
- JWT-based secure login
- Middleware for protected routes
9. User Interface
- Pages:
- Login
- Dashboard
- Workout Tracker
- Nutrition Page
- Profile
10. Testing
- Manual UI and API testing
- Tools: Postman, DevTools
11. Screenshots or Demo
(Add screenshots of login, dashboard, API responses)

7. API Documentation

12. Known Issues

- Delay in loading stats

- No push notifications
- 13. Future Enhancements
- Sync with fitness devices
- Add community & challenges
- Weekly ...