

FitBuddy Project Charter

Team Members:

- Abdullah Munir
- Raad Sarker
- Haider Ali

Date: September 19, 2025

Sponsor: UBCO/ Patricia Lasserre

Project Manager: Tanhab Sarker & Anuradha Herath

1. Identification

- **Project Name:** FitBuddy – All-in-One Fitness Web App
- **Current Version:** Version 1
- **Sponsor Authority:** UBCO
- **Project Manager:** Tanhab Sarker

2. Overview of the Project (Background)

Fitness apps often provide solutions for multiple app as usually one app may handle workout logging, another class booking, and gym discovery. Gym members, trainers, and owners need a single, integrated platform that combines these essential services.

FitBuddy addresses this problem by providing a fitness web app where users can log workouts, schedule and attend classes, monitor progress through analytics, and compare gyms nearby. This project was selected because it is achievable within an eight-week academic timeline and leverages our team's combined technical skills in frontend, backend, and database development.

3. Project Purpose (Objectives)

The purpose of FitBuddy is to deliver a functional, web-based fitness companion that:

- **Specific:** Provides workout logging, class booking, gym discovery, and progress tracking features for members, trainers, and admins.

- **Measurable:** By Dec 5, 2025, we aim to deploy the project with at least 3 user roles (member, trainer, admin), 5 tracked workout types, class scheduling, and a working gym finder.
- **Acceptable:** Meets the needs of gym members, trainers, and admins while satisfying the project sponsor's evaluation criteria.
- **Realistic:** Uses proven technologies (React frontend, Node/Express backend, Db will be decided)
- **Time-based:** Completed and presented by Dec 5, 2025 (end of term).

Definition of success: Deployment of an MVP accessible on the web, demonstrated in class, with role-based functionality and at least 80% of the planned features working.

4. Business Needs or Opportunities

- **Why created:** Fitness enthusiasts need an integrated solution instead of juggling multiple apps.
- **Benefits:**
 - Members: consistent tracking, simplified booking, gym discovery.
 - Trainers: structured class and workout management.
 - Gym owners: visibility into operations and membership engagement.
- **Contribution to objectives:** Aligns with academic project goals (team collaboration, full-stack implementation, scope control) while producing a platform that could realistically evolve into a marketable product.

5. Scope

In Scope

- **Major functionalities:**
 - Workout tracking (log sets, reps, cardio)
 - Class scheduling (create, join, cancel)
 - Progress charts (visual analytics of workouts)
 - Gym finder with cost/facility comparison
 - Admin panel for managing users, gyms, and classes
 - Members: register/login, log workouts, view progress, book classes
 - Trainers: upload workouts, schedule/manage classes
 - Admins: approve gyms, manage users and roles, moderate content

6. Key Stakeholder Summary

- **Sponsor:** UBCO
- **Project Manager:** Tanhab Sarker
- **Team Members:** Abdullah Munir, Raad Sarker, Haider Ali
- **Primary Users:** Gym members, trainers, admins
- **Secondary Users:** Prospective gym members evaluating options

Communications Plan:

- Weekly check-ins during lab sessions
- Mid-week discord planning
- Weekly review with TA for scope alignment

7. Project Milestones

- **Sept 26, 2025:** Charter approval and finalized scope
- **Oct 10, 2025:** Backend + database schema setup completed
- **Oct 24, 2025:** Frontend integration with backend APIs (basic UI)
- **Nov 7, 2025:** Core features (tracking, scheduling, progress charts) functional
- **Nov 21, 2025:** Gym finder and admin panel completed
- **Dec 1, 2025:** Final testing, bug fixes, and documentation
- **Dec 5, 2025:** Project delivery and presentation

8. Major Deliverables

- Deployed web app (MVP) with member, trainer, and admin roles
- Database schema for gyms, workouts, classes
- Functional frontend with dashboards and analytics
- Final presentation and live demo

9. Assumptions

- Team members will contribute 5 hours per week consistently
- The instructor/TA will provide timely feedback on scope adjustments
- Cloud hosting (free tier services like Vercel) will be available
- Test data will be sufficient to simulate gyms, workouts, and classes

10. Constraints

- Timeframe: strictly 8 weeks (deadline Dec 5, 2025)
- Team size: 3 students only (no additional developers)
- Budget: imaginary ($3 \text{ members} \times 5 \text{ hrs/week} \times 8 \text{ weeks} \times \$25/\text{hr} = \$3,000$ total budget)
- Technical scope: limited to web MVP, no mobile version or complex features

11. Project Charter Acceptance

By signing below, the following individuals acknowledge agreement with this charter and authorize the team to proceed:

Sponsor:

Patricia Lasserre: _____

Project Manager:

Tanhab Sarker: _____

Anuradha Herath: _____

Team Members:

Raad Sarker:  _____

Haider Ali:  _____

Abdullah Munir: *Abdullah Munir* _____

WE USED AI TO HELP GENERATE IDEAS