

Software Requirements Specification (SRS)

Gymnasium Management System



September 24, 2023

IT farm Bd

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MD Hasan

Managing Director

Gymnasium Management System

Daffodil smart city, Ashulia,Savar,

Dhaka,Bangladesh.

Date: 2023-09-24

I am writing to express my interest in participating in the Gymnasium Management System (GMS) project. I am a software engineer with 3 years of experience in developing and maintaining web-based applications. I have a strong understanding of Python, Django, and PostgreSQL, which are the technologies that will be used to develop the GMS.

I am also passionate about fitness and wellness, and I believe that the GMS is a valuable tool that can help gym managers to automate their operations and provide better services to their members. I am confident that I have the skills and experience necessary to make a significant contribution to the GMS project.

In my previous role at IT Farm BD, I was responsible for developing and maintaining a web-based application for managing fitness classes. The application was used by over 10,000 members and processed over $1 million in transactions per month. I have a strong track record of delivering high-quality software on time and within budget.

I am also a team player and I am eager to learn from others. I am confident that I can work effectively with the other members of the GMS project team to deliver a successful product.

I am available for an interview at your earliest convenience. Thank you for your time and consideration.

Yours Truly,

Md Muhasin Ali

Head

Application Development Brach

IT Bangladesh

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline the requirements for the Gymnasium Management App. This app is designed to streamline the management of a gymnasium, including member registration, attendance tracking, class scheduling, and billing.

## 1.2 Scope

The Gymnasium Management App will provide a user-friendly interface for gym staff to manage daily operations and for members to access their accounts, book classes, and view their attendance history and payment information.

# 2. Functional Requirements

## 2.1 User Authentication

Users shall be able to register for an account with a valid email address and password.

Users shall be able to log in with their registered credentials.

The system shall support two user roles: a. Admin: Full access to all app features. b. Member: Limited access to personal information and class booking.

## 2.2 Member Management

Admins shall be able to add, edit, and delete member profiles.

Members shall be able to update their personal information.

The system shall store member details, including name, contact information, and membership type.

## 2.3 Class Management

Admins shall be able to create, edit, and delete fitness classes.

Classes shall include details such as name, description, instructor, date, time, and capacity.

Members shall be able to view the class schedule and book classes based on availability.

The system shall prevent members from double-booking classes.

## 2.4 Attendance Tracking

The system shall record member attendance for each class.

Members shall receive notifications (email or in-app) for upcoming booked classes.

Admins shall be able to view attendance records and generate reports.

## 2.5 Billing and Payments

Members shall be able to view their membership status and payment history.

Admins shall be able to set membership fees and payment schedules.

The system shall automatically generate and send invoices to members.

Members shall have the option to make payments online through the app.

## 2.6 Notifications

The app shall send notifications to members for class updates, payment reminders, and other important information.

Members shall have the option to opt in or out of notifications.

# 3. Non-Functional Requirements

## 3.1 Performance

The app shall be responsive and perform efficiently, even during peak usage times.

Data retrieval and storage operations shall be optimized for speed.

## 3.2 Security

User data, including personal information and payment details, shall be securely stored and encrypted.

Authentication and authorization mechanisms shall be implemented to protect user accounts and data.

## 3.3 Usability

The app shall have an intuitive and user-friendly interface.

It shall be compatible with a variety of devices and screen sizes.

The app shall be accessible to users with disabilities.

## 3.4 Reliability

The system shall have regular data backups to prevent data loss.

It shall have a system for error logging and monitoring.

# 4. Technology Require (Application and Hardware)

* Framework: Slim.
* Database: MySQL.
* Design: Standard.
* Coding Architecture: OOP.
* Security: Standard.

# 5. Preliminary Schedule

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Reporting** | **Time** |
| Analysis | Submit The Design | 3 days |
| Requirements Collection |  | 5 days |
| Development | Review The Work | 30 days |
| Testing |  | 6 days |
| Deployment | Review Final Work | 3 days |
| Delivery | Live On Server | 3 days |

# 6. Pricing

Our fee for seeing the project through from start to completion will be Thirty Thousand Taka only (30000Tk).

# 7. Payment Terms

We propose the following payment terms:

20% (20%)

Paid on acceptance of this proposal.

25% (45%)

Paid on signing of our Application development agreement.

25% (70%)

Paid at 70% Application Demonstration.

30% (100%)

Paid at completion of the Application.

# 8. Constraints

1. The app shall be developed using [specific technology stack].
2. It shall comply with all relevant data protection and privacy regulations (e.g., GDPR).

# 9. Assumptions and Dependencies

The app assumes a stable internet connection for real-time updates.

Third-party payment gateway integration is dependent on external service providers.

# 10. Appendix

## 10.1 Glossary

* Admin: Staff members with full access to the system.
* Member: Registered gymnasium users with limited access.

# 11. Contact Us

You can get in touch with us in any of the below ways:

By Phone:

+01707745849

By Email:

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**Agreement Signed By:**

|  |  |  |
| --- | --- | --- |
| **……………………………**    **Client Signature**  **MD Hasan**  **Managing Director**  **Gymnasium Management System**  **Daffodil Smart city, Ashulia,Savar,**  **Dhaka,Bangladesh.** | **…………………………..**    **Order Provider Signature**  **Ibtesam Wasif**    **Officer**  **IT Farm BD** | **………………………**    **Authority Signature**  **Md Muhasin Ali**  **Head**  **Application Development Brach**  **IT Farm BD** |