Assignment No 2

Software Engineering



Submitted By:

Syed Azlan Shah [22-CS-115]

Arsalan Khalid [22-CS-082]

Zohaib Ashraf [22-CS-175]

Muhammad Ammar [22-CS-063]

SECTION: C

Submitted to:

SIR Sajjid Hussain

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HITEC University, Taxila

1. Prepare a requirements document depicting following requirements for your assigned project.

Project: Gym Management System

- 1. Business Requirement
- The Gym Management System (GMS) must be able to manage all aspects of gym operations, including:
- o Member management
- Attendance tracking
- Class scheduling
- Equipment management
- Inventory management
- o Point-of-sale (POS) system
- The GMS must be easy to use for both gym staff and members.
 - 2. Business Rule
- All gym members must be registered in the GMS before they can use the gym facilities.
- Gym members must pay their membership fees on time.
- Gym members must follow the gym's rules and regulations.
 - 3. Constraint
- The GMS must be affordable for small and medium-sized gyms.
- The GMS must be easy to install and maintain. (worked by azlan shah till here)
 - 4. External Interface Requirement

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- The GMS must be able to integrate with other fitness-related systems, such as nutrition tracking apps and fitness wearables.
- The GMS must be able to import and export data to other systems, such as accounting and payroll systems.

5. Feature

- The GMS must allow gym staff to manage member profiles, including contact information, membership type, and payment history.
- The GMS must allow gym members to book classes, sign up for personal training sessions, and purchase merchandise.
- The GMS must allow gym staff to track attendance, manage equipment, and inventory.
- The GMS must generate reports on membership, attendance, class participation, and sales.

(worked by Arsalan Khalid till here)

6. Functional Requirement

- The GMS must be able to accurately track member information, attendance, and sales data.
- The GMS must be able to generate accurate and comprehensive reports.
- The GMS must be easy to use for both gym staff and members.
 - 7. Nonfunctional Requirement
- The GMS must be scalable to handle a large number of gym members and transactions.
- The GMS must be available 24/7 with high uptime.
- The GMS must be secure and protect member privacy. (worked by M.Ammar till here)
 - 8. Quality Attribute
- The GMS must be accurate and reliable.
- The GMS must be easy to use and navigate.

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- The GMS must be visually appealing and engaging.
 - 9. System Requirement
- The GMS must be able to run on a variety of hardware and software platforms, including smartphones, tablets, and computers.
- The GMS must be able to access a high-speed internet connection.
 - 10. User Requirement
- Gym staff must be able to easily manage member profiles, attendance, equipment, and inventory using the GMS.
- Gym members must be able to easily book classes, sign up for personal training sessions, and purchase merchandise using the GMS.
- This is just a sample requirements document. The specific requirements for your Gym Management System will vary depending on the size and type of your gym, as well as the specific needs of your business. (worked by Zohaib Asharaf till here)