***IST 659 Database Management & Administration***

***Project Report***

***Gym Management System***

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1. **Project Scope & Summary**

The Gym Center Management System is a comprehensive solution designed to streamline the operations of gyms. It encompasses a range of features to assist gym owners and staff in efficiently managing their facilities and enhancing member experiences. The system includes several essential tables that are fundamental for organizing and storing data. These tables will be used to manage various aspects of the gym’s operations. We have chosen “Gym Management System” as our project topic for this term as gyms are widely setup and encompass a huge chunk of the healthcare industry as well, thereby making it a relevant and practical project.

We have incorporated database tables like Members, Trainers, Equipments, Sessions, Diets, Member Payments, etc. in our system. The “Members” table includes data like the Member Name, Member ID, Member Age etc, thereby providing a particular Member’s information. The System will allow the admin to register a new member, update or retrieve an existing member by referencing it through Member ID. Similarly, the “Trainers” table will include similar data for an Employee and the admin will be able to add, update or retrieve an employee by referencing it through Trainer ID. The “Equipments” table will include the data of different Equipments in the fitness center, for e.g., Equipment Name, Equipment ID, Equipment Type, etc. Other tables will also include similar information and the tables can be linked to one another by referencing them with foreign keys used in the tables.

The System will also comprise of a user-friendly UI through which the admin will seamlessly be able to add, update and retrieve the required data. We will also incorporate the employee login and the member login (optional), through which the employees and members (optional) will be able to add, update and retrieve their data. We will try our best to incorporate efficient features in the system thereby making it seamless for the users.

1. **Conceptual Data Model Diagram**

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1. **Logical Data Model Diagram**

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1. **Tools Used**

ER Diagrams- Draw.io

Backend- Azure Data Studio

Frontend- Power Apps

1. **Dataset and SQL Code**

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1. **Application Screens**

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