**Software Requirements Specification for**

**Gym Management Web App**

**Version 1.0**

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**1.Introduction**

**1.1 Purpose**

* 1. **Product Scope**

## Intended Audience and Reading Suggestions

* 1. **Definitions, acronyms, and abbreviations**

**1.5 References**

**2. Overall Description**

**2.1 Product Perspective**

**2.2 Product Function**

**2.3 User Classes and Characteristics**

**2.4 Operating Environment**

**2.5 Design and Implementation Constraints**

**2.6 User Documentation**

**2.7 Assumptions and Dependencies**

**3. External Interface Requirements**

**3.1 User Interfaces**

The layout should be as follows:

⦁ The header which displays:

⦁ the logo

⦁ the currently logged user

⦁ the “Logout” and “Manage Account” menu

⦁ the menu, immediately under the header

⦁ The body, which displays

⦁ the content

⦁ The footer, which displays

⦁ contact

There will be two different user interfaces that will accompany this website: one for the users and one for the administrators.

The administrators will be able to add users and remove them.

**3.2 Hardware Interfaces**

NA

**3.3 Software Interfaces**

The application is connected to a database (SQL Server). The database will communicate with the server, and the server will send the information to the client application. This a mock-up picture of the databases.

**3.4 Communications Interfaces**

HTTP will be the communication protocol that our app will use.

**4. System Features**

**4.1 Account Login**

**4.2 Account Logout**

**4.3 Admin Add Member**

**4.4 Admin Edit User**

**4.5 Admin Generate Reports**

**4.6 Admin Create Pool**

**5. Other Nonfunctional Requirements**

**5.1 Performance Requirements**

The product shall take initial load time depending on the internet connection strength which also depends on the media-device from which the product is run. The performance shall depend upon hardware components of the client/customer.

**5.2 Safety Requirements**

Information transmission should be securely transmitted to the server without any changes in information.

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**5.3 Security Requirements**

The system shall use secure sockets in all transactions that include any confidential customer information.

**5.4 Software Quality Attributes**

Availability: the system is available 24 hours a day.

Portability: a user can log in to the system at any time.

Reliability: the system can be used by multiple users concurrently. Any user can access the system using even a low performance PC.

Rule 1(required) Source code should have comments.

Rule 2(advisory) No identifier name should be reused.

Rule 3(required) All automatic variables shall have been assigned a value before being used.

Rule 4(advisory) The increment (++) and decrement (--) operators should not be mixed with other operators in an expression.

Rule 5(advisory) Write only one declaration per line.

Rule 6(advisory) Use meaningful names for variables

Rule 7(required) All if … else if constructs shall be terminated with an else clause.

Rule 8(required) All constants must be declared with capital letters and underline between words.

Rule 9(required) The operands of a logical && or || shall be primary-expressions.

Rule 10(required) There shall be no unreachable code.