Software Requirements Specification

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GYM Management System

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| ***Sno.*** | ***Stud. ID*** | ***Names*** | ***Remarks*** |
| 1 | 9224 | Rohaan Ahmed |  |
| 2 | 9223 | Noman Khan |  |
| 3 | 8759 | Muhammad |  |

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# Introduction

## Purpose

The purpose of this system is to provide reliability and accessibility to **Gym’s Administrator.** With this system they can easily access the functions like Registration, Feasibility, Fee Deposit, Buy/Sell Clothing/Supplements Etc...

## Document Conventions

IEEE standard is follow for this SRS; Highlightedwords are used for Functional Requirements.

## Intended Audience and Reading Suggestions

This SRS is suggested for all the Information System for developers, project managers, marketing staff, users, testers, and documentation writers. And they can easily read through in sequence. It contains all the requirements of the software and its functions and the flow of system.

## Product Scope

In this System the **Gym’s Administrator** can easily access their Member’s Info and do CRUD functions **Gym’s Administrator** can Register member and he can Sell Gym’s Products

# Overall Description

## Product Perspective

All the Paper-work documentation is not usually safe. They can be Lost, Burned Etc.…

But this System provide data protection and backups on the system level.

## Product Functions

The product is divided in to One Main panels:

**First) Admin Panel**

**First): Admin Panel:** The admin panel is used by the administrator of this software and he/she can use the

**Following functions:**

**1st Member Registration:** In this function the admin can create the account of the customer/Member, also he can edit/update/delete the information of that customer/Member.

**2nd Fee/Cash Deposits:** In this function the admin can deposit the cash to any Member’s account he Want.

**3rd Check Transactions:** By clicking on this function, the admin can see all the transactions made in past day wise/weekly/monthly /yearly.

**4th Gym Stock:** In this section the admin can sell all the products available for sale i.e mostly Gym’s clothing and Supplements.

**5th MemberShip Enquiry:** In this section the admin has a right to do Enquiry of any Account that he/she Wants.

**6th DueDate Information:** In this function the Admin Can Check the DueDate Information of all the Members registered.

**7th Settings:** In this function the Administrator can change personal information mainly by proper Verification through their Email Address.

## User Classes and Characteristics

**Educational Level:**

At least user of the system should be comfortable with the English Language which is use in this system.

**Technical Expertise:**

User should be comfortable with the general purpose applications.

## Operating Environment

This system will perform on Microsoft Windows 7,8,10, with Dot net Frame work 3.5 and Microsoft Access Database Installed.

## Design and Implementation Constraints

The product should be designed as desktop application with Microsoft SQL database , used for database implementation, also the language should be in English.

## Assumptions and Dependencies

The Database (Microsoft SQL database) should be connected with the software.

GUI will be developed by including BUNIFU dll.

# External Interface Requirements

## User Interfaces

The user will use the GUI to input required information. The user will be able to click on-screen buttons to move around the program. The user will also be able to click on fields to enter text into the text fields. The user will be able to use the tab key to move between fields. The user will be able to select checkbox if the given field required.

## Hardware Interfaces

Normal computer Specifications under Windows operating System can be used to run this software.

## Software Interfaces

This product will be created in Microsoft visual Studio with OLEDB connection 12.0 of Microsoft SQL server database and the operating system will be Windows 7,8,10.

# System Features

## Register Member

**4.1.1 Description and Priority**

This feature is applicable for administrators only, with this feature he/she can create a membership account of the Customer based on necessary information provided. This feature is a high priority because it deals directly with DataBase and is the main reason for the application to be developed.

**4.1.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where the Customer will fill personal information i.e. name, Address, Contact number, Email, Category, Date Of Birth and then click Register to create it or cancel to cancel it.

**4.1.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming and Object Oriented Design.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc.…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Fee Submission

**4.2.1 Description and Priority**

This feature is applicable for only administrators, with this feature the admin can deposit the cash in to the particular member’s account. This feature is a high priority for depositing fee.

**4.2.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where he will type the id of the member in which he wants to deposit cash and the amount of cash will depend on the category , after that he has to click on deposit button.

**4.2.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming and Object Oriented Design.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Sell Gym’s Products

**4.3.1 Description and Priority**

This feature is applicable for only Admin, with this feature the admin can sell the products available for sale in the GymStock. This feature is a high priority for the point of sale part of the Gym.

**4.3.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will appear where all the information on the Gym’s stock will be present and he/she can sell any of the available products and the transaction will be recorded, after that he has to click on SelItem button and confirm the purchase.

**4.3.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming and Object Oriented Design.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc.…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Gym’s Transactions

**4.4.1 Description and Priority**

This feature is applicable for administrator only, with this feature the admin can see all the transactions history happened in the day wise/weekly/monthly/yearly of the Gym account.

**4.4.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where all the transactions will be shown in a grid view and he can click on view to see the list of the transactions and there will also be a profit/Revenue and Expense Feature which will calculate and show the Financial Statement of the day/week/month/year.

**4.4.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming and Object Oriented Design.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc.…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## DueDate Inquiry

**4.5.1 Description and Priority**

This feature is applicable for administrator only , with this feature the admin can see the required info of the member’s membership account, his current balance and his DueDate.

**4.5.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where he just has to click on the button and it will show all the Members info whose Due Date has been passed and they are to be checked and reminded that there due date has been passed kindly submit the fee. He can also Deposit Fee directly from this window.

**4.5.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming and Object Oriented Design.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc.…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Edit Member’s Info

**4.6.1 Description and Priority**

This feature is applicable for administrators only, with this feature the admin can edit all the member’s information in the Gym. Edit includes all the CRUD operations. This feature is a medium priority.

**4.6.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where he will type the id of the account holder and then can fill the new information of the member i.e. member’s name, Address, Contact number, Email, Category and then click Update to update it.

**4.6.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming and Object Oriented Design.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc.…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Financial Report

**4.7.1 Description and Priority**

This feature is applicable for administrators only, with this feature the admin can see all the transaction reports i.e the Revenue and Expense of the day/week/month/year. This feature is a high priority.

**4.7.2 Stimulus/Response Sequences**

When admin will just click on this feature and a form will appear where all the details of the Revenues and Expenses of the Gym will be displayed.

**4.7.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming and Object Oriented Design.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

# Other Nonfunctional Requirements

## Performance Requirements

The program should run at such a speed that the user can move at his/her own pace, without noticing interruption due to processing.

## Safety Requirements

* Dependence on administrative procedures for risk control is minimized.
* The number and complexity of safety critical interfaces is minimized.
* The number and complexity of safety critical computer software components is minimized.
* Sound human engineering principles are applied to the design of the software-user interface to minimize the probability of human error.
* Failure modes, including hardware, software, human and system are addressed in the design of the software.
* Sound software engineering practices and documentation are used in the development of the software.

## Security Requirements

The system must confirm when Depositing Fee via a password to confirm that admin is making the transaction. If Suspicious Amount Transaction Occurs Email verification should be taken to confirm it.