Software Requirements Specification

for

Gym Management System

Version 1.0

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1. Table of Contents

[1. **Table of Contents**](#_Toc510950168)

[2. Introduction 3](#_Toc510950169)

[2.1. Purpose 3](#_Toc510950170)

[2.2. Document Conventions 3](#_Toc510950171)

[3. System Features 4](#_Toc510950172)

[3.1. Login 4](#_Toc510950173)

[3.2. Recharge Quota 4](#_Toc510950174)

[4. External Interface Requirements 5](#_Toc510950175)

[4.1. User Interfaces 5](#_Toc510950176)

[4.2. Hardware Interfaces 5](#_Toc510950177)

[4.3. Communications Interfaces 5](#_Toc510950178)

[5. Other Nonfunctional Requirements 6](#_Toc510950179)

[5.1. Performance Requirements 6](#_Toc510950180)

[5.2. Security Requirements 6](#_Toc510950181)

[5.3. Software Quality Attributes 6](#_Toc510950182)

1. Introduction

## Purpose

The purpose of this document is to show the detail description of the Gym Management System. It will talk about the feature of the system (what the system can do for customers), the interface of the system, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system and will be proposed to the Supervisor of Software Development Workshop II’s Group Project for approval.

## Document Conventions

This document will be written using two different fonts, Arial for main content. Time New Roman for different levels of titles (Set using styles tool). Main content’s font size should be in 11pt.

1. System Features

## Login

3.1.1 Description and Priority

Because the system does not allow registration, and all functions need to be logged in before allowing use.

The three roles in the system (Member, Worker, Coach) have login privileges.

3.1.2 Stimulus/Response Sequences

* When a not login user accesses the system, a login window is displayed on the page
* The user enters the account password and clicks the login button
* Server verified the account and the password
* If correct: open login session, return to the menu page

3.1.3 Functional Requirements

* Require database Inquiry
* If the username & the password don’t match or don’t exist: return error message, stay on the current page.

## Recharge Quota

3.2.1 Description and Priority

Members can recharge quota through the online payment platform (WeChat Pay and Alipay), The staff can also manually modify the quota for the member.

3.2.2 Stimulus/Response Sequences

* When a not login user accesses the system, a login window is displayed on the page
* The user enters the account password and clicks the login button
* Server verified the account and the password
* If correct: open login session, return to the menu page

3.2.3 Functional Requirements

* Require database Inquiry
* WeChat Pay and Alipay API
* If the payment didn’t finish within 300 seconds. It will automatically halt.

1. External Interface Requirements

## User Interfaces

<Describe the logical characteristics of each interface between the software product and the users. This may include sample screen images, any GUI standards or product family style guides that are to be followed, screen layout constraints, standard buttons and functions (e.g., help) that will appear on every screen, keyboard shortcuts, error message display standards, and so on. Define the software components for which a user interface is needed. Details of the user interface design should be documented in a separate user interface specification.>

## Hardware Interfaces

<Describe the logical and physical characteristics of each interface between the software product and the hardware components of the system. This may include the supported device types, the nature of the data and control interactions between the software and the hardware, and communication protocols to be used.>

## Communications Interfaces

<Describe the requirements associated with any communications functions required by this product, including e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication standards that will be used, such as FTP or HTTP. Specify any communication security or encryption issues, data transfer rates, and synchronization mechanisms.>

1. Other Nonfunctional Requirements

## Performance Requirements

<If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.>

## Security Requirements

<Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements. Refer to any external policies or regulations containing security issues that affect the product. Define any security or privacy certifications that must be satisfied.>

## Software Quality Attributes

<Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.>