

<b>Bene-Fit Sports Centre Membership System</b>	
System-Wide Requirements Specification	Date: 22/03/2018

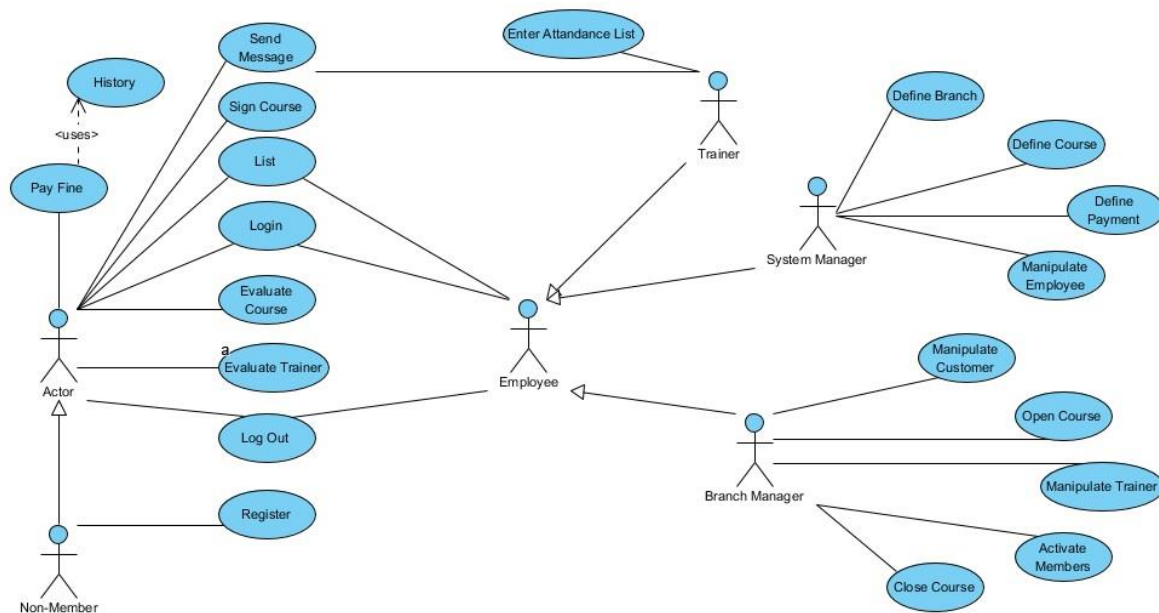
# Bene-Fit Sports Centre Membership System

## System-Wide Requirements Specification

### 1. Introduction

This document contains information about Bene-Fit Sports Center Management System plan. Additionally, functionality and system needs of system are stated in this document. To sum up, the system should provide usefulness and efficiency for the users who are sportive people so, needs and functions of this systems are stated.

### 2. System-Wide Functional Requirements



Above diagram show use cases. Case numbers are below. For tabular description see Tabular Description Appendix. For data model see ER Diagram Appendix.

Use Case	Use Case Number
Register	1
Login / Logout	2
Pay Fine / History	3
Sign Course / List Courses	4
Enter Attendance List	5
Define Branch	6
Define Course	7
Define Payment	8
Open Course / Close Course	9
Activate Members	10
Manipulate Customer / Trainer / Employee	11

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Evaluate Course	12
Evaluate Trainer	13
Course Request	14
Send Message To Customer / Trainer	15

### 3. System Qualities

A good system must be reliable, usable and giving a good performance to its users.

#### 3.1 Reliability

1. It has to work 7/24.
2. No one can Access to anothers info by illegal ways.
3. All functions and properties must work properly.
4. There must be no limitations about number of users.
5. There must be no intersections about Schedule.

#### 3.2 Performance

1. The user must be able to do his/her operations quickly without waiting so, the system should be fast.
2. System must not freeze while operations are running.

#### 3.3 Usability

1. User must be able to do what he wants without too much effort.
2. He should be able to return to main page without giving much effort.
3. The system should be designed well and it should be simple.

### 4. System Interfaces

This section provides a detailed description of all inputs into and outputs from the system. It also gives a description of the hardware, software and communication interfaces and provides basic prototypes of the user interface.

#### 4.1 User Interfaces

We have 3 kinds of user. These are 'Member', 'Trainer' and 'Manager'. Each kind of user has own view. We generally made a simple and plain design. And not complex design. All interfaces are designed and attached in the Appendix B document

#### 4.2 Interfaces to External Systems or Devices

##### 4.2.1 Software Interfaces

This application has relation with some other softwares. The first one is the database. The database system is required for our system. Because some datas must be stored to use later.

We are going to use 'MySQL' as database which is one of the most popular database. The relationship between the database and the web portal consists of operations involving both reading and changing data.

The application has buying properties so we must have added interface for 'payment system'.

##### 4.2.2 Hardware Interfaces

This is a web application so it does not have any hardware interfaces. Of course it has some hardware operations under operating system. But we do not deal with it.

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#### 4.2.3 Communications Interfaces

There is no real-time communication interface. There is just a mailing system between customers and trainers.

## 5. Business Rules

### 5.1. Course Related Fitness Center Rules

#### 5.1.1. Selected Course is Full

If the actor wants to register a full course, the system will not allow the user to do that.

#### 5.1.2. Requested Course

If a actor request a course, it must be opened when it reaches the sufficient number of requests.

#### 5.1.3. List Courses

When actors want to view and register courses, only the active courses are listed inactive courses are not shown to the user.

#### 5.1.4. Evaluate Courses

The precondition for evaluating the course is that the actor must have successfully completed the course. if the actors does not have the necessary conditions to finish after registering a course, he/she can not evaluate the course.

#### 5.1.5. Define Courses

If a new course needs to be opened that was not defined in the system, only the system manager can define that course.

#### 5.1.6. Open and Close Courses

If a course needs to be open or close that was defined in the system, only the branch manager can open or close that course.

### 5.2. Payment Rules

#### 5.2.1. Exceeding Payment Date Rule

If a member exceeds the payment date of the own membership, then membership is temporarily suspended. Membership fees may continue when you pay.

#### 5.2.2. Employee salaries

Trainers and other employees salaries have to be paid each month, unless they pull out of the work.

#### 5.2.3. Define Payment

The courses fees are defined by the system manager that exist in the system.

### 5.3. Manipulation Actors

#### 5.3.1. Registering Actor

By the rules of fitness center, if the actor wants to register, the system should allow user registration.

#### 5.3.2. Login operation

If the user can not login to the system for forget password, new password is sent to user's mail address when actors requests the new password.

#### 5.3.3. Trainer operation

If the trainer responsible in that course, He can view the course attendance list and receive a poll.

#### 5.3.4. Manipulate employee and trainer

Only the system manager terminates the job of the employees. Also the branch manager terminates the job of the trainers.

## 6. System Constraints

Our application that we are developing will be used on web browsers. The application will be developed

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for mobile, desktop or tablet browsers. The application will be developed using Spring Framework.

Because we are developing a java based application as a software, we have to have JVM in the environment where our application will work.

## **7. System Compliance**

### **7.1 Licensing Requirements**

Open source libraries will be used in this software. The software is provided "AS IS", without warranty of any kind, express or implied, including but not limited to the warranties of merchantability, fitness for a particular purpose and noninfringement.

### **7.2 Legal, Copyright, and Other Notices**

Bene-Fit Sports Center Membership System (SCMS) provided by Tesla Software, is a software that provides many business conveniences for customers and employees.

Tesla software assumes no responsibility or liability for the use of the software, conveys no licence or title under any patent ,copyright ,or mask work right to the product.

Tesla software reserves right to make changes in the software without notification. Tesla software also make no representation or warranty that such application will be suitable for the specified use without further testing or modification.

### **7.3 Applicable Standards**

The SCMS software's default language is English. In addition, sports center membership system standards are global. This will provide an international change to the system.

Java coding standards provided by Oracle will be used throughout the project development.

## **8. System Documentation**

When product is complete, there will be a user manual available. In this way, anyone can understand how to use our application.

This manual will be prepared by Tesla Members.

## **9. Appendices**

Appendix 1 - Tabular Descriptions of Use Cases

Appendix 2 – User Interface Prototypes

Appendix 3 – Data Model with ER Diagram