Gym Management system

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# Gym Management System

The gym management system helps members to do self-registration and book gym sessions and incase the sessions are fully booked them member will be required to book another session as per the available slots. Members are able to view their booking as well. The gym administrator is able to view all bookings and available slots. The gym administrator is able view and delete all members.

## Use case diagram



## Full Use case Description

|  |  |  |
| --- | --- | --- |
| **USE CASE NAME:** | Register member | |
| **SCENARIO:** | The user will enter his/her personal information in the system in order to register then the system will check if the member exist or not if the member already exist the message will be sent to the user noting that the member already exist and if the member don’t exist then the information will be saved in a database. | |
| **TRIGGERRING EVENT:** | The member wants to have an account | |
| **BRIEF DESCRIPTION:** | The member must be able to get access to system to insert his/her personal details to the system | |
| **ACTORS:** | Member | |
| **RELATED USE CASE:** | None | |
| **STAKEHOLDERS:** | Member, Admin | |
| **PRECONDTION:** | The Member must not be existing member from the database | |
| **POSTCONDITION:** | The message will be displayed to the screen and the member’s information will be saved in the database. | |
| **FLOW OF ACTIVITY:** | ACTOR | SYSTEM |
| 1. Click on registration tab   2. the member insert his/her information into the fields and clicks register button | 1.1 The system display the registration page  2.1the system will check if all fields have data  2.2 check if member doesn’t exist |
| **EXCEPTION CONDITION:** | The member must not be the existing member on the system | |

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| **USE CASE NAME:** | Book session | |
| **SCENARIO:** | The member will login into the system to make bookings for the session they would like, but the member is not to book two sessions for the same date. | |
| **TRIGGERRING EVENT:** | The member wants to book a session | |
| **BRIEF DESCRIPTION:** | The member must be able to get access to system and make bookings | |
| **ACTORS:** | Member | |
| **RELATED USE CASE:** | None | |
| **STAKEHOLDERS:** | Member, Admin | |
| **PRECONDTION:** | NONE | |
| **POSTCONDITION:** | The message will be displayed to the screen and the member’s booking will be saved in the database. | |
| **FLOW OF ACTIVITY:** | ACTOR | SYSTEM |
| 1. Click on booking tab   2. the member selects the session and the date she wants to do the session | 1.1 The system display the booking page  2.1the system will check if the member hasn’t booked the selected date and display the appropriate message |
| **EXCEPTION CONDITION:** |  | |

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| --- | --- | --- |
| **USE CASE NAME:** | delete member | |
| **SCENARIO:** | The admin will login into the system to delete an existing member. | |
| **TRIGGERRING EVENT:** | The member don’t want an account anymore | |
| **BRIEF DESCRIPTION:** | The admin must be able to get access to system so that he can delete an existing member | |
| **ACTORS:** | Admin | |
| **RELATED USE CASE:** | None | |
| **STAKEHOLDERS:** | Member, Admin | |
| **PRECONDTION:** | The Member must be existing member from the database | |
| **POSTCONDITION:** | The message will be displayed to the screen and the member’s information will removed in the database. | |
| **FLOW OF ACTIVITY:** | ACTOR | SYSTEM |
| 1. Click on deleteMember tab   2. the admin insert clicks delete button next to the name of the member | 1.1 The system display the deleteMember page  2.1the system will display the message and remove data from the database. |
| **EXCEPTION CONDITION:** |  | |

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| --- | --- | --- |
| **USE CASE NAME:** | Update Profile | |
| **SCENARIO:** | The user will view his/her personal profile and select update tab in order to update personal information that he/she would like to change. | |
| **TRIGGERRING EVENT:** | The member wants to update personal details | |
| **BRIEF DESCRIPTION:** | The member must be able to get access to system to view and update personal information | |
| **ACTORS:** | Member | |
| **RELATED USE CASE:** | None | |
| **STAKEHOLDERS:** | Member, Admin | |
| **PRECONDTION:** | The Member profile must exist already | |
| **POSTCONDITION:** | The message will be displayed on the form after new information is saved | |
| **FLOW OF ACTIVITY:** | ACTOR | SYSTEM |
| 1. Click on view profile tab   2.The member updates information and press update button | 1.1 The system will display profile details  2.1 System allows you to edit profile information  2.2 display the message and changes data from the database |
| **EXCEPTION CONDITION:** | Must be an existing member on the system | |

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| --- | --- | --- |
| **USE CASE NAME:** | View booking | |
| **SCENARIO:** | The user will access the system in order to see bookings made and the admin is able to view all the bookings made by all members. | |
| **TRIGGERRING EVENT:** | The admin wants to view the available bookings | |
| **BRIEF DESCRIPTION:** | To see the total number of bookings available | |
| **ACTORS:** | Member and Admin | |
| **RELATED USE CASE:** | None | |
| **STAKEHOLDERS:** | Member, Admin | |
| **PRECONDTION:** | none | |
| **POSTCONDITION:** | Available bookings will be displayed on the screen | |
| **FLOW OF ACTIVITY:** | ACTOR | SYSTEM |
| 1. Click on view bookings tab | * 1. The system checks who the user is   1.2 Display bookings according to the user |
| **EXCEPTION CONDITION:** | None | |

## Design class diagram











## System sequence diagram





