Rocket Sports Reservation System

Use Case Specification

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Revision History

Date	Author(s)	Changes	Version
28.02.2020	Serçin Üstündağ	Initial version	1.0

1. Brief Use Case Descriptions

Use Case Number	Use Case Name	Actor	Brief Description
UC1	Sign-up	User	User wants to sign up as a member. System shows the sign-up page. User fills **member information** (For member information see Glossary). System records the information and shows a successful sign-up message.
UC2	Sign-in	Member, Administrator, Personal Trainer	Members, Administrator or Personal Trainer want to sign in. System requests **sign-in information** (For sign in information see Glossary). Members enter requested information. System approves and shows successful sign-in messages.
UC3	Manage Members	Administrator	Administrator wants to manage members. System shows a list of members. Administrator selects a member. System shows **member information** (For member information see Glossary). Alternatively, Administrator might want to update or delete an existing member.
UC4	Manage Time Slots of Center	Administrator	Administrator wants to manage the weekly time slots of the center. System shows the ordered list of time slots. Administrator selects a time slot. System shows the beginning and ending hours of the selected time slot. Alternatively, Administrator might want to update or delete an existing time slot.
UC5	Manage Personal Trainers	Administrator	Administrator wants to manage the personal trainers of the center. System shows a personal trainer list. Administrator selects a personal trainer. System shows **personal trainer information** (For personal trainer information see Glossary).

			Alternatively, Administrator might want to add a new personal trainer or update or delete an existing personal trainer.
UC6	Manage Schedule	Personal Trainer	Personal trainer wants to manage his/her schedule. System shows the PT schedule with **availability information** (For personal trainer information see Glossary). PT alternatively update the availability of unreserved time slots.
UC7	Monitor All Personal Trainer Schedules	Member, Administrator, Personal Trainer	Member, Administrator or Personal Trainer wants to monitor the Personal Trainer schedule and availability of their hours. Member, Administrator or Personal Trainer selects a personal trainer. System shows the schedule of the selected personal trainer with available hours.
UC8	Reserve Personal Trainer	Member	Members want to make a reservation with a personal trainer for a time slot. Members select a personal trainer. System shows the selected personal trainer's schedule with availability information (For personal trainer information see Glossary). Members select an available time slot. System creates reservations for the members, shows **reservation information** (For reservation information see Glossary) and updates selected personal trainer's schedule.
UC9	Monitor reservations	Member	Members want to monitor his/her reservations. System shows the member's reservations with **reservation information** (For reservation information see Glossary).
UC10	Cancel Personal Trainer Reservation	Member	Members want to cancel reservation for a registered hour. System shows the list of upcoming reservations of the members. Member selects a reservation to cancel. System cancels the reservation and updates the related personal trainer's schedule.

2. Use Case Model
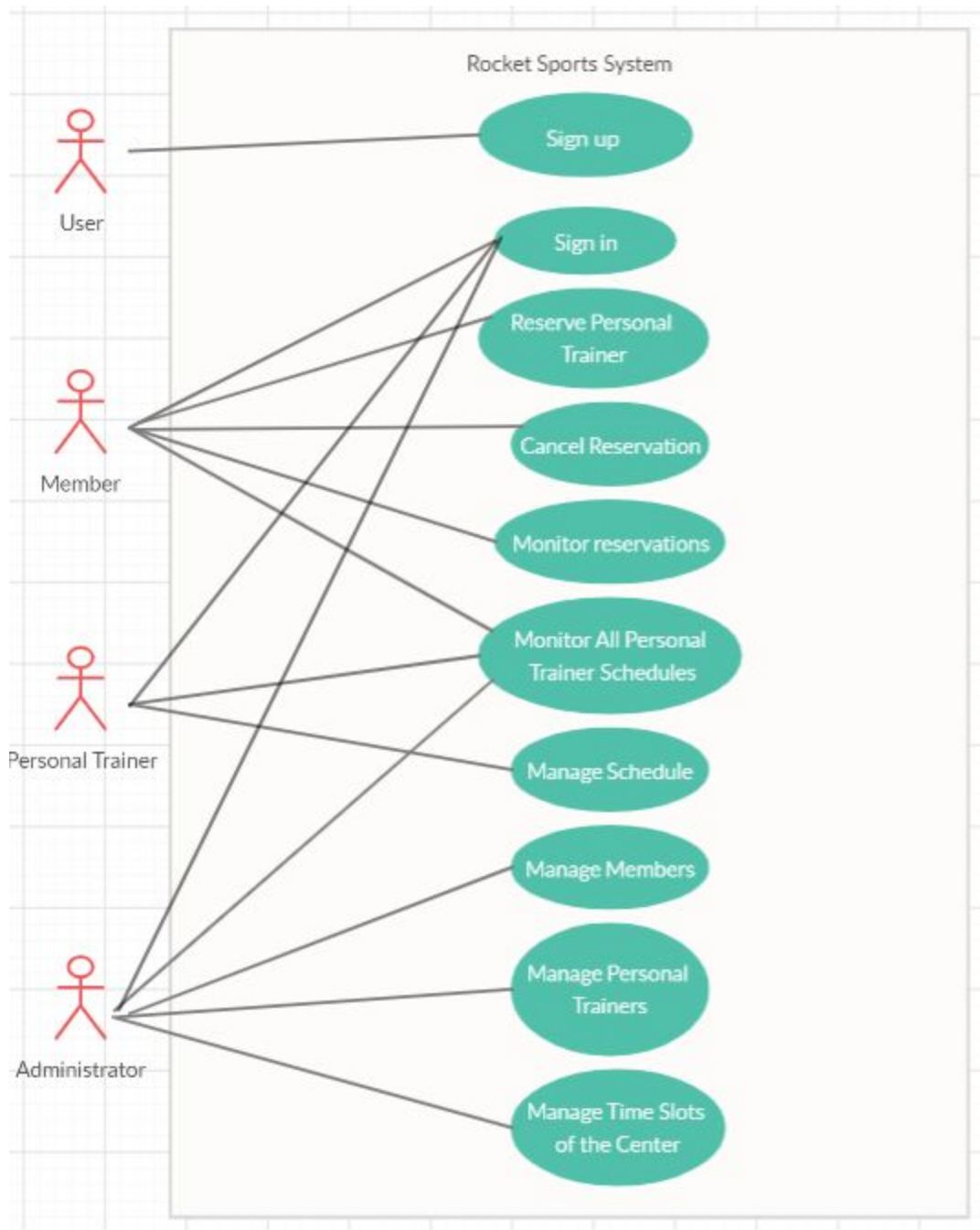
3. Fully Dressed Format Use Cases

3.1. Use-Case: UC1-Sign-up

1. Brief Description

User wants to sign up as a member. System shows the sign-up page.
User fills member information (For member information see Glossary).
System records the information and shows a successful sign-up message.

2. Actors

2.1. User

3. Preconditions

3.1. User is not registered yet.
3.2. User is on the home-page.

4. Basic Flow of Events

1. The use case begins when a user wants to sign up to the system.
2. System shows the sign-up page.
3. User enters member information and pushes the 'Sign-up' button.
4. System records the user information and displays a successful registration message.
5. The use case ends.

5. Alternative Flows

5.1. Missing Information

If in step 3 of the basic flow the user does not fulfil the required member information, then

1. System displays a warning message.
2. User fills the missing fields.

3. The use case resumes at step 3.

Existing Email

If in step 3 of the basic flow the user enters an existing email address, then

1. System displays a warning message.
2. User enters another email address.
3. The use case resumes at step 4.

Under-age Sign-up

If in step 3 of the basic flow the user is under the age of 10, then

1. System displays a warning message.
2. The use case ends with failure.

6. Post-conditions

Successful Completion

The user has successfully registered

Failure Condition

The user has not registered.

3.2. Use-Case: UC2-Sign-in

a.

1.   Brief Description

Members, Administrator or Personal Trainer want to sign in. System requests sign-in information (For sign-in information see Glossary). Members enter requested information. System approves and shows successful sign-in messages.

2.   Actors

- ● Member
- ● Administrator
- ● Personal Trainer

3.   Preconditions

User is registered before.

User is not logged in yet.

User is on the home-page.

4.   Basic Flow of Events

1. The use case begins when a user (Member, Administrator, Personal Trainer) wants to sign in to the system.
2. System shows the sign-in page.
3. User enters email and password and pushes the 'Sign in' button.
4. System accepts and displays successful sign-in messages.
5. The use case ends.

5.   Alternative Flows

5.1.   Wrong Email

If in step 3 of the basic flow the user enters wrong email, then

1. System displays a warning message.
2. User re-enters email.
3. The use case resumes at step 3.

5.2.   Wrong Password

If in step 3 of the basic flow the user enters wrong password, then

1. System displays a warning message.
2. User re-enters password.
3. The use case resumes at step 3.

6.   Post-conditions

6.1.   Successful Completion

The user has successfully sign-in.

6.2.   Failure Condition

The user has not signed-in.

3.3. Use-Case: UC6-Manage Schedule

i.

1.   Brief Description

Personal trainer wants to manage his/her schedule. System shows the PT schedule with availability information (For personal trainer information, see Glossary). PT alternatively can update the availability of his/her unreserved time slots.

2.   Actor Brief Descriptions

● Personal Trainer

3.   Preconditions

Personal Trainer is signed in and authenticated.

Time Slots of the center are already defined.

4. Basic Flow of Events

1. The use case begins when a Personal Trainer wants to manage his/her weekly schedule.
2. System shows the schedule of the week for the Personal Trainer.
3. Personal Trainer selects a day and a time slot.
4. System shows availability information of the selected day and time slot.

   Steps 3,4 are repeated until Personal Trainer indicates done.
5. The use case ends.

5. Alternative Flows

5.1. Update Availability

If in step 4 of the basic flow the user wants to update availability information, then

1. Personal Trainer enters new availability status for the selected day and time slot and pushes the update button.
   a. Personal Trainer enters a day and time slot that is passed according to server date-time.
      i. System rejects and shows an error message.
      ii. Use case continues from step 3.
   b. System updates availability information.
   c. The use case ends.

6. Post-conditions

6.1. Successful Completion

The Personal Trainer has successfully viewed his/her weekly schedule. One or more availability status of the time slot is updated.

6.2.   Failure Condition

One or more availability status of the time slot can not be updated.