

Software Requirements Report for Software Engineering Group Project

2023/2024 Semester 2

Online Booking Service for a Sport Centre

31 March 2024

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Group 6

Introduction

Project

This project is a web-based sports center booking system for staff and students to book sports activities. The core functionality is that users can log in to the system to view and book sports activities, and manage personal profiles and valid booking information; the administrator can view or modify sports activity information and related activity elements, and manage user information. In addition to the core functionality, we have also designed features such as user password recovery, coupon functionality, favorites functionality, and user blocking functionality.

My Work Division

My task division is about 5 **admin** functions. The details are as follows:

1. SC31: The administrator can **view** all the coach information on a page, and can meet the viewing needs by using sorting and searching functions.
2. SC32: The administrator can **block** specific users on a page to maintain the booking rules, and the details of the block should be in a time range.
3. SC33: The administrator can **modify** a booking's details on a page to meet the reasonable modification requirements of the user when needed.
4. SC34: The administrator can **manage** the distribution method logic of the coupon such as the distribution scope and the expiration time.
5. SC35: The administrator can **log** in to the admin system by entering a username and a password.

Product Backlog Item

PBI #	SC31
Title	View all coach information

Creation Date	25 March 2024	Status	New	Sprint	1
Priority	1	Effort	12h	Business Value	3/5

Story

As an administrator, I want to be able to view all the coach's information, in order to know the current situation of coach resources, and then effectively manage the coach resources.

Description

1. The system should provide a dedicated page where administrators can access a comprehensive list of all coaches.
2. The list of coaches should include pertinent details such as their full names, contact information, working slots, working status and the specific activities they are qualified to coach.
3. There should be a sorting functionality to organize the list of coaches based on criteria such as their names or the activities they coach.
4. There should be a searching functionality to find a certain coach based on the searching content.

Acceptance Criteria

1. Given that I am a valid administrator, when I am on the administrator homepage, then I can access the "Coach Information" page by clicking on the "Coach" button on the side of the homepage.

Scenario 1: There exist coach information:

- Given that I in the "Coach Information" page, when there exists valid coach information in the database, then I should see a list of all existing coaches displayed on the page.
- Given that I am viewing the list of coaches, when I click on the "Sort by Activity" option on the side of the page, then the list should be rearranged based on the activities each coach is qualified to teach, making it easy to check coaches for the same activity.
- Given that I am viewing the list of coaches, when I click on the "Sort by Status" option on the side of the page, then the list should be rearranged based on the coach's work status, those who are in work are ranked first, then those who are idle, and finally those who are not in work.
- Given that I am viewing the list of coaches, when I click the search bar on the top of

the list, then I should be able to search for specific coaches based on their names.

Searching Scenario 1: There **exist** the name I want to check

- Given that I am searching the coach, when I input the name I want to find in the search bar and press “Enter”, then I should see only one row of coach information on the page and that is what I’m searching for.

Searching Scenario 2: The name I want to check is **not** in the database

- Given that I am in searching the coach, when I input the name I want to find in the search bar and press “Enter”, then I should see there is “We could not find a matching name. Please re-enter it”.

Scenario 2: There is no coach information:

- Given that I am a valid administrator, when I navigate to the "Coach Information" page in the system and there is no coach information, then I should see “There is no coach information yet. Please add coach first. ” on the page.

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Discussion

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Related PBIs

SC27

Product Backlog Item

PBI #	SC32
Title	Administrators block users

Creation Date	25 March 2024	Status	New	Sprint	3
Priority	3	Effort	14h	Business Value	5/5

Story

As an administrator, I would like to be able to block certain users from placing orders in order to maintain the booking rules and security of the sports center.

Description

1. The system should provide the administrator with the ability to block certain users from placing orders.
2. To find a certain user and block it, the administrator should access the user list and click the block button of the user to open the block detailed page where administrators can set comprehensive block information for a certain user.
3. The block information should include: block start time and block end time.
4. Once a user is blocked, the user cannot be blocked again

Acceptance Criteria

1. Given that I am a valid administrator, when I am on the administrator homepage, then I can access the "Block Users" page by clicking on the "Block Users" button on the side of the homepage.

Scenario 1: The user I choose **can** be blocked:

- Given that I am on the "Block Users" page, when there exist some valid users in the database, then I should see a list of all existing users displayed on the page and a "Block" button on the right of each row.
- Given that I am on the "Block Users" page, when I click the "Block" button, then I should see a popup screen about the start time and end time of this block.
- Given that I am in a popup screen, when I select the start time and end time of this block, then I can click the "Confirm" button to proceed.

Time Setting Scenario 1: The time setting is **valid**

- Given that I am in the popup screen, when I confirm the block, then the block is active and the page will be back to the page of the user list.

Time Setting Scenario 2: The time setting is **invalid**

- Given that I am in the popup screen, when the start time and end time is invalid, then I can see a warning near the time selection area: "Your select time is invalid."

Scenario 2: The user I choose **can't** be blocked:

- Given that I am on the "Block Users" page, when I click the "Block" button, then I should see a popup screen with: "The user is already be blocked. " .

Scenario 3: There is **no** user

- Given that I am on the "Block Users" page, when there is no user information, then I should see "There is no user information yet. Please add user first. " on the page.

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Discussion

Related PBIs

SC15

Product Backlog Item

PBI #	SC33
Title	Administrator maintain bookings

Creation Date	25 March 2024	Status	New	Sprint	2
Priority	2	Effort	24h	Business Value	4/5

Story

As an administrator, I want to modify the sports activity order, so that I can deal with the exception of the order in time and meet the reasonable modification requirements of the user when needed.

Description

1. The system should provide a dedicated page where administrators can access a comprehensive list of all sports activity orders.
2. There should be a button on the far right of each row of booking orders that will take the administrator to the "Modify Order" page.
3. On the "Modify Order" page, the administrator can modify the booking time of the order, the booked activity, the location, and the coach.
4. The administrator can click "Cancel" to return after entering "Modify Order" page.

Acceptance Criteria

1. Given that I am a valid administrator, when I am on the administrator homepage, then I can access the "Activity Bookings" page by clicking on the "Bookings" button on the side of the homepage.

Scenario 1: There exist bookings:

- Given that I am a valid administrator, when I navigate to the "Activity Bookings" page, then I should see a list of all existing sports activity bookings displayed on the page.
- Given that I am on the "Activity Bookings" page, when I click the button on the far right of each row of order, then I will see a popup page: "Modify Booking" and show some input blocks that are the elements I can modify.
- Given that I am in the "Modify Booking" page, when I input all the content I want to change, then I can click the "Confirm" button to save my modify and proceed.

Modify Scenario 1: The modification is in the **correct** form

- Given that I am on the "Modify Booking" page, when I confirm my modification by clicking the "Confirm" button, then I will be back to the "Activity Bookings" page and check that my change is active.

Modify Scenario 2: The modification is in the **incorrect** form

- Given that I am on the “Modify Booking” page, when I confirm my modified content by clicking the “Confirm” button, then there will display “Input form is wrong, please fill in the correct information.” nearby the “Confirm” button and let me try to fill in the required field.

Scenario 2: There is **no** booking:

- Given that I am a valid administrator, when I navigate to the "Activity Bookings" page, then I should see “There is no booking yet. Please wait for bookings. ” on the page.
2. Given that I am on the “Modify Booking” page, when I click the “Cancel” button, then the system will close the “Modify Booking” page and back to the "Activity Bookings" page.

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Discussion

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Related PBIs

SC5

Product Backlog Item

PBI #	SC34
Title	Maintain coupon distribution

Creation Date	25 March 2024	Status	New	Sprint	2
Priority	2	Effort	14h	Business Value	3/5

Story

As an administrator, I would like to be able to manage the distribution of coupons to effectively promote the activities usage of the sports center.

Description

1. The system should provide a dedicated page where administrators can access the list of coupon distribution information.
2. There should be a "Create Coupon" button on the top of the page that will take the administrator to the "Create Coupon" page.
3. On the "Create Coupon" page, the administrator can set the type of coupon, the amount or percentage of discount, the number of coupons issued, the issue range, and the expiration date.
4. The range of discount percentage cannot be less than 1% or more than 100%, and the expiration date cannot be earlier than the issue date.
5. After the administrator correctly inputs the information, the administrator needs to confirm it to make it activate.
5. The administrator can click "Cancel" to return after entering "Create Coupon" page.

Acceptance Criteria

1. Given that I am a valid administrator, when I am on the administrator homepage, then I can access the "Coupon Distribution" page by clicking on the "Coupon" button on the side of the homepage.

Scenario 1: There **exist** coupon distribution rules:

- Given that I am on "Coupon Distribution" page, when there already exists some coupon distribution rules, then I can see a list of the coupon distribution rules and a "Create Coupon" button on the top of the page.

Scenario 2: There is **no** coupon distribution rule:

- Given that I am on the "Coupon Distribution" page, when there is no coupon distribution rule, then I can see "There is no coupon distribution rule now." and a "Create Coupon" button on the top of the page.

2. Given that I am on the "Coupon Distribution" page, when I click the "Create Coupon" button, then a popup page of "Create Coupon" should be displayed which allows me to input the content of the coupon and activate it.

Coupon Input Scenario 1: The coupon content is in **correct** form

- Given that I am on the "Create Coupon" page, when I input the content of the coupon and click the "Confirm" button, then I should see "The coupon is issued" and back to the "Coupon Distribution" page at the same time.

Coupon Input Scenario 2: The coupon content is in **incorrect** form

- Given that I am on the "Create Coupon" page, when I input the content of the coupon and click the "Confirm" button, then I should see "The information does not meet the requirement of coupon, please try again. " nearby the "Confirm" button.

3. Given that I am on the "Create Coupon" page, when I click the "Cancel" button, then the system will close the "Create Coupon" page and back to the "Coupon Distribution" page.

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Discussion

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Related PBIs

SC2

Product Backlog Item

PBI #	SC35
Title	Administrator can log in the system

Creation Date	24 March 2024	Status	New	Sprint	1
Priority	1	Effort	12h	Business Value	5/5

Story

As the website administrator, I want to log in so that I can manage and monitor the system operation.

Description

1. Administrator can access a dedicated login page to log in to the system as an administrator.
2. The login requires the administrator to input the username and password.
3. The login function should ensure that the administrator's identity is securely authenticated and provide the appropriate error message to deal with possible login problems.

Acceptance Criteria

1. Given that I am a valid administrator, when I am on the login page, then I can click the "Administrator Login" button and see input fields for the administrator username and password.
2. Given that I am on the administrator login page, when I input the username and password to proceed, then I can click the "Login" button below the input fields and check the login verification.

Scenario 1: The username and password are **correct**:

- Given that I am on the administrator login page, when I enter the administrator username and password and click the "Login" button, then I can see the administrator homepage which means I successfully login.

Scenario 2: At least one of the username and password is **incorrect**:

- Given that I am on the administrator login page, when I enter the administrator username and password and click the "Login" button, then I can see there will be a warning under the input fields: "Your username or password is wrong, please try again!".

Scenario 3: At least one of the username and password is **missing**:

- Given that I am on the administrator login page, when I missing at least one of the administrator username or password and click the "Login" button, then I can see there will be a warning under the input fields: "Your username or password is

missing, please try again!".

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Discussion

Related PBIs

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