Done by the student bozachydi Yelyzaveta

USER REQUIRMENTS SPECIFICATION

2024

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# Change Log

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| --- | --- | --- | --- |
| VERSION | CHANGES | DATE | AUTHOR |
| 0.1 | Created | 24.02 |  |
| 0.2 | Refactoring FRs, UCs | 02.03 |  |
| 0.3 |  |  |  |
| 0.4 |  |  |  |

# Team

|  |  |  |
| --- | --- | --- |
| Name | Email | PCN |
| Bozachydi Yelyzaveta | l.bozachydi@fontys.student.nl | 505092 |

# Project Tutor

|  |  |
| --- | --- |
| **Name** | **Email** |
|  |  |

# Client

Our client – representative of the company

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| --- | --- |
| **Name** | **Email** |
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# Agreements with the client

## Deliverables

* **Software Application**: Completion and delivery of a custom software application tailored to the client’s specifications by the agreed-upon deadline.
* **Technical Documentation**: Comprehensive documentation

## Non-deliverables

* **Hardware**: Provision of computer hardware
* **Third-party Services**: Costs and management of third-party services (e.g., payment gateways, external APIs) are not covered unless specified in the additional agreements.
* **Support and Maintenance:** Ongoing support and maintenance

# Functional requirements

Roles: Admin, Customer

## App requirements

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| --- | --- | --- | --- | --- |
| **Identifier** | **A user should be able to** | **Target Actor** | **Use Cases** | **Priority** |
| FR-001 | Login | All users | A-UC-1 | Must have |
| FR-002 | Logout | All users | A-UC-2 | Must have |
| FR-004 | Update account details | All users | A-UC-3 | Must have |

## Admin Management requirements

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| **Identifier** | **A user should be able to** | **Target Actor** | **Use Cases** | **Priority** |
| FR-101 | View Dashboard (displaying user activity, bookings) | Admin | AM-UC-1 | Must have |
| FR-102 | Modify bookings | Admin | AM-UC-2 | Must have |
| *Change the booking status\** | | | | |
| FR-103 | Cancel bookings | Admin | AM-UC-3 | Must have |

## Customer requirements

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| **Identifier** | **A user should be able to** | **Target Actor** | **Use Cases** | **Priority** |
| FR-201 | Create an account | Customer | C-UC-1 | Must have |
| FR-202 | Delete an account | Customer | C-UC-2 | Should have |
| FR-202 | View Bookings | Customer | C-UC-3 | Must have |
| FR-203 | Book a session | Customer | C-UC-4 | Must have |
| FR-204 | Cancel bookings | Customer | C-UC-5 | Must have |
| FR-205 | Modify Booking | Customer | C-UC-6 | Must have |
| *Adjust the duration of the booking, within allowed limits\** | | | | |
| FR-206 | View Real-time Availability | Customer | C-UC-7 | Must have |

# Use Cases

## App Requirements Use Cases (A-UC-XX)

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| --- | --- |
| A-UC-1: User logs in |  |
| Requirements | FR-001 |
| Short description | The actor logins into the system. |
| Actors | All users. |
| Preconditions | No one is logged in and the account exists. |
| Postconditions | The actor is logged into the system. |
| Basic flow | 1. System requests an actor to fill a form. 2. Actor fills the required credentials. 3. Actor submits the form. 4. System redirects actor to the Home Page 5. End of the UC |
| Alternative flows | 2. Invalid credentials:  2.1 If the user enters incorrect credentials, the system displays an error message.  2.2. User can retry or request password recovery. |

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| A-UC- 3: User logs out |  |
| Requirements | FR-002 |
| Short description | The actor logs out of the system. |
| Actors | All users. |
| Preconditions | The actor must be logged in (see [**A-UC-1**]). |
| Postconditions | Actor is logged out. |
| Basic flow | 1. Actor chooses the sign “Logout”. 2. System redirects to Login/Registration Page. 3. End of the UC |
| Alternative flows |  |

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| A-UC- 4: Updating account details |  |
| Requirements | FR-003 |
| Short description | The system allows a customer to update their account details |
| Actors | Administrator. |
| Preconditions | The actor must be logged in (see [**A-UC-1**]) |
| Postconditions | The user is no longer in the system |
| Basic flow | 1. Actor navigates to the Account Settings Page. 2. Actor selects the option to update account details. 3. System displays the current account details and editable fields. 4. Actor enters the new details. 5. System validates the new details. 6. System updates the account details 7. End of UC. |
| Alternative flows | 4. Invalid input  4.1 If the system detects invalid details, it displays an error message.  4.2 Customer corrects the details and resubmits. |

## Admin Management Requirements Use Cases (AM-UC-XX)

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| --- | --- |
| AM-UC-1: View Dashboard |  |
| Requirements | FR-101 |
| Short description | View Dashboard. |
| Actors | Admin. |
| Preconditions | Actor must be logged in (see [**A-UC-2**]). |
| Postconditions | Admin views the updated data on the dashboard. |
| Basic flow | 1. Actor logs into the system. 2. System navigates actor to the dashboard. 3. System displays real-time data, bookings, upcoming tournaments. 4. Actor reviews the information. |
| Alternative flows | 1. Login Failure:    1. If login fails, the system displays an error message.    2. Actor re-enters login credentials.    3. Return to **step 1** of the Basic Flow. |

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| AM-UC-2: Modify Bookings |  |
| Requirements | FR-102 |
| Short description | The system updates the booking. |
| Actors | Admin. |
| Preconditions | Actor must be logged in (see [**A-UC-1**]),  see specific booking from dashboard (see [**AD-UC-1**]). |
| Postconditions | The booking is updated in the system and the customer is notified. |
| Basic flow | 1. Actor navigates to Management Page. 2. Actor selects a booking from list to modify. 3. Admin modifies the necessary details. 4. System updates the booking and confirms the changes to the admin. |
| Alternative flows | 1. No Changes Made:    1. Admin decides not to change any details and exits.    2. System logs the action without making changes. |

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| AM-UC-3: Cancel Bookings |  |
| Requirements | FR-103 |
| Short description |  |
| Actors | Admin |
| Preconditions | Actor must be logged in (see [**A-UC-1**]), see specific booking from dashboard (see [**AD-UC-1**]) |
| Postconditions | The booking is canceled in the system.  The customer is notified of the cancellation. (?) |
| Basic flow | 1. Actor navigates to the Management Page. 2. Actor selects a booking from the list to cancel. 3. Admin confirms the cancellation. 4. System cancels the booking and confirms the cancellation to the admin. 5. System sends a cancellation notification to the customer. |
| Alternative flows | 1. Admin decides not to cancel the booking and exits.   * 1. System logs the action without cancelling the booking. |

## Customer Requirements Use Cases (C-UC-XX)

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| С-UC-1: View Bookings |  |
| Requirements | FR-201 |
| Short description | The system allows a customer to view their existing bookings. |
| Actors | Customer |
| Preconditions | Actor must be logged in (see **[A-UC-1]**).  Actor must have at least one existing booking. |
| Postconditions | Actor views their list of bookings. |
| Basic flow | 1. Actor navigates to the Bookings Page. 2. System retrieves and displays the customer’s bookings. 3. Actor views the list of bookings. |
| Alternative flows | 2. No Bookings Found  2.1 If no bookings are found, the system displays a message: "No bookings available."  2.2 System redirects to the homepage or booking creation page. |

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| С-UC-2: Book a Session |  |
| Requirements | FR-203 |
| Short description | The system allows a customer to book a new session. |
| Actors | Customer. |
| Preconditions | Actor should be logged in (see **[A-UC-2]**). |
| Postconditions | Customer booked a session. |
| Basic flow | 1. System requests the required data(date/timeslot). 2. Actor fills the requested form. 3. Actor submits the form. 4. System provides seat map. 5. Actor chooses available seat. 6. System confirms the booking. 7. End of UC. |
| Alternative flows | 4. No seats available  4.1 Actor chooses another date/timeslot.  6. Booking Aborted  6.1 Actor decides not to proceed with the booking and exits the process. |

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| C-UC-3: Cancel Bookings |  |
| Requirements | FR-204 |
| Short description | The system allows a customer to cancel an existing booking. |
| Actors | Customer |
| Preconditions | Actor must be logged in (see **[A-UC-1]**).  Actor must have an existing booking (see **[C-UC-2]**). |
| Postconditions | Booking is cancelled. |
| Basic flow | 1. Actor navigates to “My Bookings” Page. 2. System provides list of existing bookings. 3. Actor chooses a booking to delete. 4. System asks for confirmation. 5. Actor confirms the deletion. 6. The booking is cancelled. 7. End of UC. |
| Alternative flows | 1. Cancellation Deadline Passed:   3.1 If the cancellation deadline has passed, the system informs the customer that the booking cannot be cancelled.  3.2 Customer returns to **Step 2**.  4. Action aborted.  4.1 Actor decided not to delete the existing booking. |

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| C-UC-4: Modify Bookings | |
| Requirements | FR-205 |
| Short description | The system allows a customer to modify an existing booking |
| Actors | Customer |
| Preconditions | Customer must be logged in (see **[A-UC-1]**).  Customer must have an existing booking (see **[C-UC-2]**). |
| Postconditions | Booking details are updated. |
| Basic flow | 1. Actor navigates to “My Bookings” Page. 2. System provides list of existing bookings. 3. Actor chooses a booking to modify. 4. System provides fields for changes. 5. Actor fills the data. 6. Actor saves the changes. 7. System updates the booking. 8. End of the UC. |
| Alternative flows | **3.** **Modification aborded.**  3.1 Actor decided not to change booking details.  3.2 Changes for this booking are not allowed.  3.3 System transfers actor **Step 2**.  **6.** **Invalid data input.**  6.1 The system detects invalid changes; it displays an error message.  6.2 Actor re-enters the data. |

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| A-UC-1: Account creation / Signup |  |
| Requirements | FR-001 |
| Short description | Actor creates an account. |
| Actors | Customer |
| Preconditions | No new accounts in the system. |
| Postconditions | A new user is added into the system. |
| Basic flow | 1. System asks the actor to fill in credentials 2. Actor fills in the information 3. Actor submits the form 4. System transfers to the Home Page. |
| Alternative flows | 2. Invalid input: 2.1 If the user enters invalid information (e.g., weak password, existing email), the system displays an error message.  2.2 Actor corrects the information and resubmits the form. |