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-0: Display Login Page |  |
| Requirements | FR-001 |
| Short description | The login page is displayed to the user. |
| Actors | All users. |
| Preconditions | Actor is not logged in. |
| Postconditions | The actor exists in the system. |
| Basic flow | 1. Actor navigates to Website. 2. System checks if session key User exists. 3. Actor is redirected to Login Page. 4. System provides the required fields for Sign Up.   End of the UC. |
| Alternative flows | 4. Session check fails (treated as no session) |

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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 | Actor is logged out the account exists. |
| Postconditions | The actor is logged into the system. |
| Basic flow | 1. Actor opens the website. 2. System requests an actor to fill a form. 3. Actor fills the required credentials, submits the form. 4. System checks the correctness of credentials. 5. Actor is provided with access to the aplication.   End of the UC. |
| Alternative flows | 4. Invalid credentials:  4.1 The system displays an error message.  4.2. Actor goes back to Step 2. |

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| A-UC- 2: 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.   End of the UC |
| Alternative flows |  |

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| A-UC- 3: 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. System displays the current account details and editable fields. 3. Actor edits the desired option. 4. System validates the new details, updates the account details   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. |

## Coordinator Management Requirements Use Cases (CM-UC-XX)

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| CM-UC-1: View Dashboard |  |
| Requirements | FR-101 |
| Short description | View Dashboard. |
| Actors | Coordinator. |
| 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.   End of UC. |
| Alternative flows | 1. Login Failure:    1. Login fails.    2. the system displays an error message.    3. Actor re-enters login credentials.    4. Return to **step 1** of the Basic Flow. |

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| CM-UC-2: Modify Bookings |  |
| Requirements | FR-102 |
| Short description | The system updates the booking. |
| Actors | Coordinator. |
| 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. System provides the list of bookings. 3. Actor selects a booking from list to modify. 4. Systems requests to modify booking. 5. Actor modifies the necessary details. 6. System updates the booking and confirms the changes to the customer and actor.   End of UC. |
| Alternative flows | 1. No Changes Made:   3.1 Actor decides not to change any details and exits.   * 1. System logs the action without making changes. |

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| CM-UC-3: Cancel Bookings |  |
| Requirements | FR-103 |
| Short description | Specific booking is canceled. |
| Actors | Coordinator. |
| 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. System provides the list of bookings. 3. Actor selects a booking from the list to cancel. 4. System asks for the confirmation of the cancelation. 5. Actor confirms the cancellation. 6. System cancels the booking. 7. Customer receives the notification of cancelation. 8. Actor sees the confirmation of the cancellation.   End of UC. |
| Alternative flows | 4. Actor decides not to cancel the booking and exits.  4.1 System logs the action without cancelling the booking. |

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

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| C-UC-0: Display Signup Page |  |
| Requirements | FR-201 |
| Short description | The actor creates an account. |
| Actors | Customer |
| Preconditions | Actor must be logged in (see **[A-UC-1]**). |
| Postconditions | Signup form is displayed OR user is redirected to the customer panel. |
| Basic flow | 1. Actor navigates to Website. 2. System checks if session key User exists. 3. Actor is redirected to Signup Page. 4. System provides the required fields for Sign Up. |
| Alternative flows | 2. Session check fails |

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| C-UC-1: Account creation / Signup |  |
| Requirements | FR-201 |
| Short description | The 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. |

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| С-UC-2: 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. The system processes the request and redirects the actor to the Bookings Page. 3. Actor requests the display of current bookings. 4. The system retrieves booking data and displays the list of current bookings 5. Actor views the list of bookings.   End of UC. |
| Alternative flows | 4. No Bookings Found  4.1 No bookings are found.  4.2 the system displays a message: "No bookings available.".  4.3 System redirects to the homepage or booking creation page. |

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| С-UC-3: 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. The actor navigates to Customer Panel page. 2. The system displays a booking form sidebar requesting required inputs such as date, time slot, and session duration 3. The actor fills in the form and submits the booking request. 4. The system processes the request and displays a dynamic seat map based on selected zone, date, and time. 5. The actor chooses available seat from the map. 6. The system requests a booking confirmation with specified details. 7. The actor confirms the booking 8. The system system creates the booking record, marks the seat as reserved.   End of UC. |
| Alternative flows | 4. No seats available  4.1 The Actor chooses another date/timeslot.  7. Booking Aborted  7.1 The Actor decides not to proceed with the booking and exits the process.  7.2 The system aborts the process and returns to the panel |

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| C-UC-4: 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.   End of UC. |
| Alternative flows | 1. Cancellation Deadline Passed:    1. The cancellation deadline has passed    2. 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-5: 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. |