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| Test plan |
| For Synthesis assignment |



Test plan

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| Revisions | | | |
| Verison | Description | Date | Author |
| 1 | Added base Test plan structure and main test cases | 02.05.2022 | Yordan Doykov |
| 1.1 | Updated test plan with alternative test cases | 11.05.2022 | Yordan Doykov |
| 1.2 | Fixed test cases numbers and added more alternative flow test cases | 29.05.2022 | Yordan Doykov |

**Introduction**

This document aims to further deepen the developers’ understanding of their product through the help of testers with no prior knowledge of the application. This allows the creators as much as the client to understand the overall accessibility of the created application before deployment.

Test cases are of great importance in showing whether the application provides an approachable GUI as well as in the discovery of potential bugs before the release of the apps.

Test cases per use case

UC-01: Log in the application

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| --- | --- | --- | --- | --- |
| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-01 | Log in with correct credentials | On the “Log in” screen | Username: jrdn  Password: 123  Role of Account: Staff member | App switches over to the main screen of the desktop application |
| TC-02 | Log in with incorrect credentials | On the “Log in” screen | Username: asdf  Password: asdf  ^values not present in the database (any random values should suffice) | “Wrong username or password” message is displayed. |
| TC-03 | Log in with a non-staff account | On the “Log in” screen | Username: player1  Password: 123  Role of Account: Player | “You are not a staff member” message is displayed. System takes no further action. |

UC-02: Log out of the application

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-04 | Log Out | On the “Home” screen | -none- | App switches to the “Log in” screen awaiting a new log in |

UC-03: Staff creates account in the application

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-05 | Create account in the system | On the “Register account” screen.  Logged in as staff member. | Username: jrdn  Password: 123  New account info:  Username: jdoe  Password: 1234  Email: [jdoe@gmail.com](mailto:jdoe@gmail.com)  Address: Eindhoven central  First name: John  Last name: Doe  Role: Player | Account is created and system displays a success message. New account is available for use. |
| TC-06 | Create account with missing or incorrect details | On the “Register account” screen.  Logged in as staff member. | Username: jrdn  Password: 123  New account info:  Username: as  Password: 1  Email:  Address:  First name: j  Last name: d  Role: | Account is not created and system displays error messages about specific input accordingly. |

UC-04: Staff adds tournament to the system

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-07 | Add tournament to the system with correct information | On the “Create tournament” screen.  Logged in as staff member. | Username: jrdn  Password: 123  New tournament info:  Name: Eindhoven playoffs  Sport: Badminton  Description: This is a tournament description  Start date: 01.06.2022  End date: 10.06.2022  Min. players: 4  Max players: 8  Location: Eindhoven  System: Round-robin | Tournament is created and open for players to register in it. System displays a success message |
| TC-08 | Create tournament with missing or incorrect information | On the “Create tournament” screen.  Logged in as staff member. | Username: jrdn  Password: 123  New tournament info:  Name: E  Sport: Badminton  Description:  Start date: any date before the system’s current date  End date:  Min. players: -2  Max players: 0  Location: The moon  System: | Tournament is not created and system displays error messages about specific input accordingly. |

UC-05: Staff sees all tournaments in the system

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-09 | Access the list of pending tournaments in the system | On the Home screen.  Logged in as staff member. | Username: jrdn  Password: 123  Tournament status: pending | The system displays all tournaments that have not started yet. |
| TC-10 | Access the list of ongoing tournaments in the system | On the Home screen.  Logged in as staff member. | Username: jrdn  Password: 123  Tournament status: ongoing | The system displays all tournaments that are currently being played. |
| TC-11 | Access the list of ended tournaments in the system | On the Home screen.  Logged in as staff member. | Username: jrdn  Password: 123  Tournament status: ended | The system displays all concluded tournaments. |

UC-06: Staff edits the information of a tournament

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-12 | Edit tournament with correct information | On the “Edit tournament” screen.  Logged in as staff member. | Username: jrdn  Password: 123  New tournament info:  Sport: Badminton  Description: new tournament description  Start date: 01.06.2022  End date: 10.06.2022  Min. players: 4  Max players: 8  Location: Eindhoven  System: Single-elimination | The system edits the information of the tournament and displays a success message. |
| TC-13 | Edit tournament with incorrect information | On the “Edit tournament” screen.  Logged in as staff member. | Username: jrdn  Password: 123  New tournament info:  Name: Ei  Sport: Badminton  Description:  Start date: any date before the system’s current date  End date:  Min. players: -2  Max players: 0  Location: The moon  System: | Tournament is not edited and system displays error messages about specific input accordingly. |
| TC-14 | Edit tournament that starts in one week or has ended | On the “Edit tournament” screen.  Logged in as staff member. | Username: jrdn  Password: 123  Tournament status: ongoing or ended | The system displays error message and does not allow the staff member to reach the “Edit tournament” screen |

UC-07: Staff member deletes tournament from the system

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-15 | Delete a tournament successfully | On the Home screen.  Logged in as staff member. | Username: jrdn  Password: 123 | Tournament is deleted along with all the information about played games and results. System displays a success message. |

UC-08: Staff member starts a pending tournament

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-16 | Start any pending tournaments | On the Home screen.  Logged in as staff member. | Username: jrdn  Password: 123 | Selected tournament is launched and system generates its schedule with games to be played. System displays success message. |
| TC-17 | Tournament starts in more than 1 week | On the Home screen.  Logged in as staff member. | Username: jrdn  Password: 123 | The selected tournament is still open for registration, so it’s not started. System displays information message. |
| TC-18 | Tournament schedule has already been generated | On the Home screen.  Logged in as staff member.  Any tournament with already generated schedule | Username: jrdn  Password: 123 | The selected tournament’s schedule has already been generated, so no further action can be taken. System displays error message. |

UC-09: Staff member concludes any ended tournament

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-19 | Start concludes an ended tournament | On the Home screen.  Logged in as staff member. | Username: jrdn  Password: 123 | Selected tournament is concluded and system ranks players in the tournament. System displays success message. |
| TC-20 | Tournament has not ended yet | On the Home screen.  Logged in as staff member.  Any tournament with status: pending or ongoing | Username: jrdn  Password: 123 | The tournament has not ended yet and not all games are played. System displays information message and takes no further action. |

UC-10: Staff member views scheduled games for a tournament

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-21 | View all games to be played for a tournament | On the Home screen.  Logged in as staff member. | Username: jrdn  Password: 123 | System navigates staff to “View games” screen and all of the tournament games are shown. |

UC-11: Staff member registers the result of a tournament game

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-22 | Register results of a concluded game with a correct score | On the “View games” screen.  Logged in as staff member. | Username: jrdn  Password: 123  Player 1 points: 20  Player 2 points:  22 | Game results are registered successfully and a winner is determined. System updates the standings of the tournament and displays a success message. |
| TC-23 | Register results of a game with an incorrect score | On the Home screen.  Logged in as staff member. | Username: jrdn  Password: 123  Player 1 points: 2  Player 2 points:  8 | Game results are not registered. System displays error message. |
| TC-24 | Register results of a not yet started game | On the Home screen.  Logged in as staff member. | Username: jrdn  Password: 123 | System does not allow the staff to reach the “Edit game” screen and displays error message. |

UC-12: Register in the web application

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-25 | User creates a player account with correct details |  | Username: test\_player  Password: 123  Email: [player2@gmail.com](mailto:player2@gmail.com)  Address: Eindhoven  First name: Jane  Last name: Doe | A player account is created in the system and is ready to use. Website displays a success message. |
| TC-26 | User creates an account with incorrect or missing information | . | Username: p  Password: 12  Email: player2@gm.c  Address:  First name:  Last name: | Account is not created and webiste displays error message according to user’s input. |

UC-13: Log in the application

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-27 | Log in with correct credentials |  | Username: test\_player  Password: 123 | Website navigates to the home page and user is logged in. |
| TC-28 | Log in with incorrect credentials | . | Username: p  Password: 12 | “Wrong username or password” message is displayed. |

UC-14: Log out of the application

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-29 | Log Out | On the Home page | -none- | Website logs user out and inaccessible buttons are removed |

UC-15: User navigates to “Tournaments” page

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-30 | Go to tournaments page |  | -none- | Website navigates to “Tournaments” page and pending tournaments are displayed |

UC-16: User sees all tournaments in the system

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-31 | Access the list of pending tournaments in the system | On the “Tournaments” page. | -none- | The system displays all tournaments that have not started yet. |
| TC-32 | Access the list of ongoing tournaments in the system | On the “Tournaments” page. | -none- | The system displays all tournaments that are currently being played. |
| TC-33 | Access the list of ended tournaments in the system | On the “Tournaments” page. | -none- | The system displays all concluded tournaments. |

UC-17: User sees information about a tournament

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-34 | See tournament details | On the “Tournaments” page. | -none- | Website navigates to “Tournaments details” page and displays tournament’s information, standings and games |

UC-18: Player registers for a tournament

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-35 | Register for a tournament | On the “Tournament details” page.  Logged in as a player | Username: test\_player  Password: 123 | System registers player for the tournament and refreshes the page. User can see their current standings |
| TC-36 | Try to register but already registered for the tournament | On the “Tournaments” page.  Logged in as a player  Registered for the selected tournament | Username: test\_player  Password: 123 | Website displays an error message and system takes no further action. |
| TC-37 | Register for a tournament that begins in less than one week | On the “Tournaments” page.  Logged in as a player | Username: test\_player  Password: 123 | Website displays an error message and system takes no further action. |
| TC-38 | Register for a tournament that has reached maximum payer capacity | On the “Tournaments” page.  Logged in as a player  Any tournament with reached player limit | Username: test\_player  Password: 123 | Since there is no place to register anymore, system takes no further action and displays error message. |

UC-19: Player deregisters from a tournament

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-39 | Deregister for a tournament | On the “Tournament details” page.  Logged in as a player  Registered for the selected tournament | Username: test\_player  Password: 123 | System deregisters player for the tournament and refreshes the page. User can no longer see their current standing in the tournament. |
| TC-40 | Try to deregister but not registered for the tournament | On the “Tournaments” page.  Logged in as a player | Username: test\_player  Password: 123 | Website displays an error message and system takes no further action. |
| TC-41 | Deregister for a tournament that begins in less than one week | On the “Tournaments” page.  Logged in as a player  Registered for the selected tournament | Username: test\_player  Password: 123 | Website displays an error message and system takes no further action. |

UC-20: User sees their profile page

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| ID | Name | Pre-Condition | Test Data | Expected Result |
| TC-42 | User sees their profile | On the “Tournaments” page.  Logged in with any account | Username: test\_player  Password: 123 | Website navigates to “My Profile” page and displays information regarding the logged in user. |