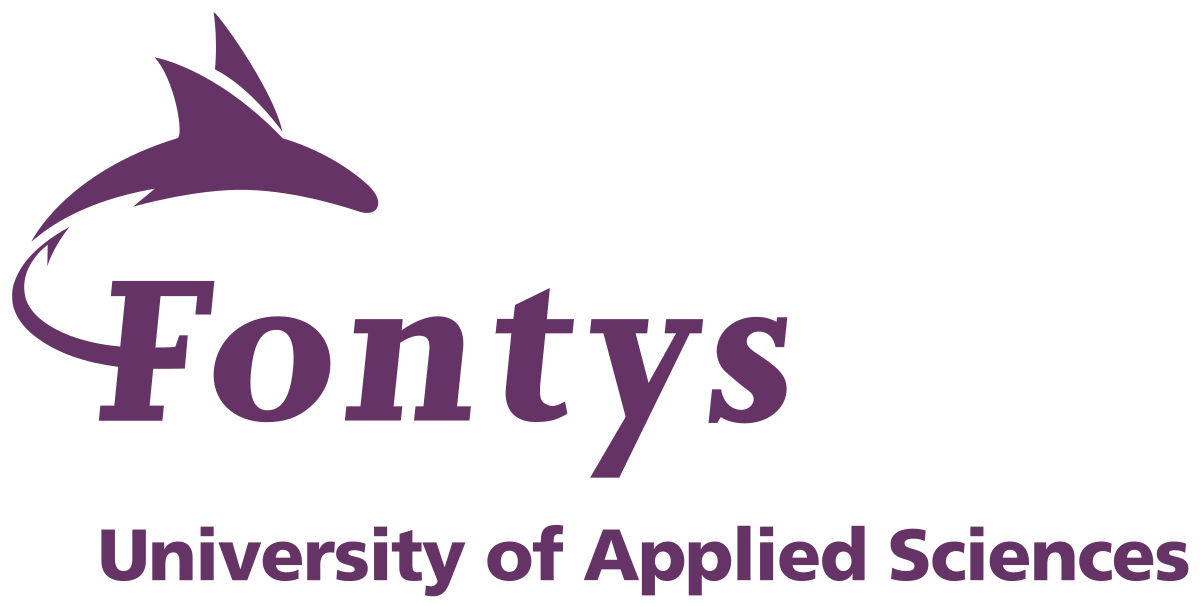
Test Plan

Individual Project



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# Test Cases

## Authentication Functionalities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC | User Story | Pre-condition | Test data | Expected result |
| TC-01 | Successful login as a user. | Application must be open on the device | Username: test  Password: test | The user is redirected to the home page and is able to make bookings. |
| TC-02 | Successful login as an admin. | Application must be open on the device | Username: admin  Username: admin | The user is redirected to the home page, where he can manage all the events on the website. |
| TC-03 | Login with wrong credentials | Application must be open on the device | Username: fail  Password: fail | The user will remain on the same page and a pop-up message “Invalid credentials” will be displayed. |
| TC-04 | Login with empty field(s). | Application must be open on the device | Username:  Password: test | A pop-up message “Please fill out this field” will appear under the missing field. |
| TC-05 | Successful registration | Application must be open on the device | Email: s.p@gmail.com  Username: s.petkov  Password: 123456  Confirm Password: 123456  First Name: Stanislav  Last Name: Petkov  Gender: Male  Phone: +3124312332434  Email: stasg@gmail.com | A pop message “You have signed up successfully” will be displayed and the user will get automatically logged in and redirected to the home page. |
| TC-06 | Registration with already taken (registered) email or username. | Application must be open on the device | Email: test@gmail.com  Username: test1  Password: 123456  Confirm Password: 123456  First Name: Stanislav  Last Name: Petkov  Gender: Male  Phone: +3124312332434  Email: stasg@gmail.com | The user will remain on the same page and a message “User with this email already exists” will be displayed. |
| TC-07 | Registration with a too short password | Application must be open on the device | Email: test1@gmail.com  Username: test1  Password: 1234  Confirm Password: 1234  First Name: Stanislav  Last Name: Petkov  Gender: Male  Phone: +3124312332434  Email: stasg@gmail.com | The user will remain on the same page and a message “Password must be at least 6 characters long” will be displayed. |
| TC-08 | Registration with passwords not matching. | Application must be open on the device | Email: s.p@gmail.com  Username: s.petkov  Password: 123456  Confirm Password: 123450  First Name: Stanislav  Last Name: Petkov  Gender: Male  Phone: +3124312332434  Email: stasg@gmail.com | The user will remain on the same page and a message “Passwords do not match” will be displayed. |
| TC-09 | Registration with missing field(s). | Application must be open on the device | Email: s.p@gmail.com  Username:  Password: 123456  Confirm Password: 123456  First Name: Stanislav  Last Name: Petkov  Gender: Male  Phone: +3124312332434  Email: stasg@gmail.com | The user will remain on the same page and a message “Please fill out this field” under the missing field will be displayed. |
| TC-10 | Logout | The user is already logged into the application |  | The user will be logged out of the application and redirected to the home page. |

## Event Functionalities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC | User Story | Pre-condition | Test data | Expected result |
| TC-11 | Viewing available matches as a user. | The user is already logged into the application |  | The user is redirected to the schedule page and a list of the upcoming matches is displayed. |
| TC-12 | Adding a new match successfully. | The user is already logged as admin. | Opponent: FC Barcelona  League: Champion’s League  Ticket price: 60  Date: 15/03/2022  Time: 5:00 PM | The user is redirected to the home page, where the new event is displayed on the list of events. |
| TC-13 | Adding event with non-existent team name. | The user is already logged as admin. | Opponent: FC Barcelona123  League: Champion’s League  Ticket price: 60  Date: 15/03/2022  Time: 5:00 PM | The user gets a message, that a team with the specified name doesn’t exist. |
| TC-14 | Editing event successfully | The user is already logged as admin. | Opponent: FC Barcelona  League: Champion’s League  Ticket price: 80  Date: 19/03/2022  Time: 8:00 PM | The user gets a confirmation message and is redirected to the home page. |
| TC-15 | Editing event info with non-existent team. | The user is already logged as admin. | Opponent: FC Barcelona111  League: Champion’s League  Ticket price: 80  Date: 19/03/2022  Time: 8:00 PM | The user gets a message that a team with this name doesn’t exist and remains on the same page. |
| TC-16 | Deleting an event. | The user is already logged as admin. |  | The user presses the “delete” button and gets an “are you sure message”, if he presses “ok” the event is deleted and the user is redirected to the home page, if the user selects “cancel”, he remains on the same page and the event is not deleted. |
| TC-17 | Adding a new team successfully. | The user is already logged as admin. | Team: FC Manchester City  Logo: ManchesterCity.png | The user gets a confirmation message that the team has been added and remains on the same page. |
| TC-18 | Adding a team that already exists. | The user is already logged as admin. | Team: FC Barcelona  Logo: ManchesterCity.png | The user gets a message, that a team with this name already exists and remains on the same page. |

## Booking Functionalities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC | User Story | Pre-condition | Test data | Expected result |
| TC-19 | Making a successful booking.   1. Press “Book Now” 2. Select Quantity 3. Press “Buy Now” 4. Press “+” button 5. Enter payment info 6. Check “Use My Account” 7. Check “Agreement to terms and conditions” 8. Press “Complete Order | The user is already logged into the application | Category: 3  Quantity: 4  Block: 308  Cardholder name: Stanislav Petkov  Card number: 4111 1111 1111 1111  Security code: 850  Expiration date: 12/25 | The user gets confirmation that his booking has been successful and is redirected to his booking history, where his new booking is displayed. |
| TC-20 | Entering wrong payment info   1. Press “Book Now” 2. Select Quantity 3. Press “Buy Now” 4. Press “+” button 5. Enter payment info 6. Check “Use My Account” 7. Check “Agreement to terms and conditions” 8. Press “Complete Order | The user is already logged into the application | Category: 3  Quantity: 4  Block: 308  Cardholder name: Stanislav Petkov  Card number: 1111 1111 1111 1111  Security code: 850  Expiration date: 12/25 | The user gets a message that his credit card number is invalid and remains on the same page. |
| TC-21 | Booking with empty field(s)  Entering wrong payment info   1. Press “Book Now” 2. Select Quantity 3. Press “Buy Now” 4. Press “+” button 5. Enter payment info 6. Check “Agreement to terms and conditions” 7. Press “Complete Order | The user is already logged into the application | Category: 3  Quantity: 4  Block: 308  Cardholder name: Stanislav Petkov  Card number: 4111 1111 1111 1111  Security code: 850  Expiration date: 12/25  First Name: Stanislav  Last Name: “”  Gender: Male  Phone Number: +31 123453435  Email: stn@gmail.com | The user gets a message that he needs to fill in the “Last Name” field to proceed. |
| TC-22 | Trying to book tickets without being logged in.   1. The user presses the “Book Now” button | The user is NOT logged into the application |  | The user is redirected to the login page. |

## Account Functionalities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC | User Story | Pre-condition | Test data | Expected result |
| TC-23 | Viewing your bookings. | The user is already logged into the application |  | The user is redirected to the bookings page, where he can vie his bookings. |
| TC-24 | Editing personal profile successfully. | The user is already logged into the application | First Name: Stanislav1  Last Name: Petkov1  Gender: Male  Phone: +31243123324343  Email: stasg123@gmail.com | The account information has been changed successfully and the user is redirected to the home page. |
| TC-25 | Editing profile with empty field(s). | The user is already logged into the application | First Name:  Last Name: Petkov1  Gender: Male  Phone: +31243123324343  Email: stasg123@gmail.com | The user gets a pop-up message below the “first name” field, that says “Please fill out this field” and remains on the same page. |
| TC-26 | Successfully changing account’s password | The user is already logged into the application | Username: stan  Password: stan  --  Current Password: stan  New Password: 123456  Repeat New Password: 123456 | A message that informs the user that he has changed his password successfully is displayed and he is redirected to the home page. |
| TC-27 | Changing password with wrong current password field | The user is already logged into the application | Username: test  Password: test  --  Current Password: test123  New Password: 123456  Repeat New Password: 123456 | The user gets a message that the current password doesn’t match his current password. |
| TC-28 | Changing password without matching new passwords. | The user is already logged into the application | Username: test  Password: test  --  Current Password: test  New Password: 111111  Repeat New Password: 222222 | The user gets a message that the new password fields do not match. |

# Testing Strategy

With regards to testing I will be doing several integration tests to confirm that my three subsystems (front-end, back-end and database) function correctly as one whole system, at least 1 system test and 60%+ code coverage via unit tests, where the focus would be to test at least all the functions in my logic layer, because the logic of my application is the most error-prone part of the system. The plan is to make a unit test per use case. Having a large amount of single use cases will simplify the testing process and improve the codes future debugging and maintainability. Tests that validate several things may become too complex and hard to maintain in the future. To be able to have maintainable code I will stick with having one (or if needed two) assertions per test. Every test will be self-contained and not interact with other components to verify validity.

Continuous integration will also be part of my testing strategy because it will allow me to integrate new parts of my code more smoothly and detect potential issue at an earlier stage. Gitlab CI and SonarQube will be my main tools for utilizing this strategy.

Continuous deployment via docker will also help me with running integration tests and testing if my subsystems are compatible.