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Test Cases

1.1 Authentication Functionalities

TC	User Story	Pre-condition	Test data	Expected result
TC-01	Successful login as a user.	Application	Username: test	The user is redirected to the home
		must be open	Password: test	page and is able to make bookings.
		on the device		
TC-02	Successful login as an admin.	Application	Username: admin	The user is redirected to the home
		must be open	Username: admin	page, where he can manage all the
		on the device		events on the website.
TC-03	Login with wrong credentials	Application	Username: fail	The user will remain on the same
		must be open	Password: fail	page and a pop-up message
		on the device		"Invalid credentials" will be
				displayed.
TC-04	Login with empty field(s).	Application	Username:	A pop-up message "Please fill out
		must be open	Password: test	this field" will appear under the
		on the device		missing field.
TC-05	Successful registration	Application	Email: s.p@gmail.com	A pop message "You have signed
		must be open	Username: s.petkov	up successfully" will be displayed
		on the device	Password: 123456	and the user will get automatically
			Confirm Password: 123456	logged in and redirected to the
			First Name: Stanislav	home page.
			Last Name: Petkov	
			Gender: Male	
			Phone: +3124312332434	
			Email: stasg@gmail.com	
TC-06	Registration with already	Application	Email: test@gmail.com	The user will remain on the same
	taken (registered) email or	must be open	Username: test1	page and a message "User with
	username.	on the device	Password: 123456	this email already exists" will be
			Confirm Password: 123456	displayed.
			First Name: Stanislav	
			Last Name: Petkov	
			Gender: Male	
			Phone: +3124312332434	
			Email: stasg@gmail.com	
TC-07	Registration with a too short	Application	Email: test1@gmail.com	The user will remain on the same
	password	must be open	Username: test1	page and a message "Password
		on the device	Password: 1234	must be at least 6 characters long"
			Confirm Password: 1234	will be displayed.
			First Name: Stanislav	
			Last Name: Petkov	
			Gender: Male	
			Phone: +3124312332434	
			Email: stasg@gmail.com	

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.

1.2 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.

1.3 Booking Functionalities

TC	User St	tory	Pre-condition	Test data	Expected result
TC-19		g a successful booking.	The user is	Category: 3	The user gets confirmation that his
	1.	Press "Book Now"	already logged	Quantity: 4	booking has been successful and is
	2.	Select Quantity	into the	Block: 308	redirected to his booking history,
	3.	Press "Buy Now"	application	Cardholder name: Stanislav	where his new booking is
	4.	Press "+" button		Petkov	displayed.
	5.	Enter payment info		Card number: 4111 1111	
	6.	Check "Use My		1111 1111	
		Account"		Security code: 850	
	7.	Check "Agreement to		Expiration date: 12/25	
		terms and conditions"			
	8.	Press "Complete Order			
TC-20		ng wrong payment info	The user is	Category: 3	The user gets a message that his
		Press "Book Now"	already logged	Quantity: 4	credit card number is invalid and
		Select Quantity	into the	Block: 308	remains on the same page.
	3.	Press "Buy Now"	application	Cardholder name: Stanislav	
	4.			Petkov	
	5.	' '		Card number: 1111 1111	
	6.	Check "Use My		1111 1111	
	_	Account"		Security code: 850	
	7.	Check "Agreement to		Expiration date: 12/25	
		terms and conditions"			
TC 24		Press "Complete Order	TI	Colores 2	The second of th
TC-21		g with empty field(s)	The user is	Category: 3	The user gets a message that he
		ng wrong payment info Press "Book Now"	already logged into the	Quantity: 4 Block: 308	needs to fill in the "Last Name"
				Cardholder name: Stanislav	field to proceed.
	3.	Select Quantity Press "Buy Now"	application	Petkov	
	3. 4.	•		Card number: 4111 1111	
	5.			1111 1111	
	6.	Check "Agreement to		Security code: 850	
	0.	terms and conditions"		Expiration date: 12/25	
	7.			First Name: Stanislav	
	/.	1 1633 Complete Order		Last Name: ""	
				Gender: Male	
				Phone Number: +31	
				123453435	
				Email: stn@gmail.com	
TC-22	Trying	to book tickets without	The user is		The user is redirected to the login
		ogged in.	NOT logged		page.
	_	The user presses the	into the		
		"Book Now" button	application		

1.4 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.