End-to-end testing

Document describing end-to-end test cases with user functions, conditions, test cases, and how they relate to our stated requirements.

Case descriptions

Case No.	User functions	Conditions	Test case/s	Fail if
E1	1. User enters a username and password. 2. The user is redirected to a homepage which provides list of upcoming events and a navbar.	• User has entered a valid username and password implying that they have an account and have used correct credentials. • DB is accessible.	• Valid test username and password are used to login to app. • Invalid username or password are used and access is denied to user.	• Invalid username or password achieves successful login. • Valid username and password fail to achieve login.
E2	1. User starts on homepage and can see upcoming events. 2. User clicks on event and is redirected to a page displaying all of the event's details. 3. User is able to optionally click a button that enables them to edit the event details. 4. If an event has been edited, the user can save the new event details, which are then posted to the BE and saved in the DB.	• User is already logged in. • DB is accessible. • Only valid input is submitted to the form as per validation code. • All required fields still complete.	• An event is selected to view and then edited and the updated event is saved successfully to the DB.	• The updated event is not saved to the DB. • Access to the event is not permitted from the event overview page. • Input that doesn't conform to expectations (e.g. invalid date) saved.
E3	1. The user uses the navbar to navigate to their contacts. 2. The user is able to search for a contact by their name or any associated tags that the user has added to the contact profile. 3. When the contact is selected, the user is redirected to a page displaying all contact details. 4. The user is able to click a button which directs them to a page with a reference to all of the events ever associated with the contact.	• The contact must be a registered user with whom the user has connected with on the app or a contact created by the user already. • Events must have been created for events to exist in relation to a contact. • The DB and BE are accessible. • The user is already logged in.	• Navigate to contacts, search and select a contact, navigate to associated events.	• Unable to see history of events with contact and upcoming events. • Unauthorised user viewing any of this content.
E4	1. The user uses the navbar to navigate to their contacts. 2. The user is able to search for a contact by their name or any associated tags that the user has added to the contact profile. 3. When the contact is selected, the user is redirected to a page displaying all contact's details. 4. The user clicks on a button enabling them to edit the contact's details and then clicks on a button which posts the new details to the BE and saves them to the DB.	• The contact exists. • The DB and BE are accessible. • The user is already logged in. • Only valid input is submitted to the form as per validation code.	• Contact page is accessed, contact is searched for and selected, button to edit contact selected and contact edited and new details saved.	• Unauthorised user can access any of this content. • New contact details are not saved. • Input that doesn't conform to expectations (e.g. invalid email address) saved.
E5	1. User navigates from the homepage to their profile page using the navbar. 2. User is redirected to a page which displays details associated with their profile. 3. User is able to click on a button to edit their profile. 4. User is able to edit their profile details and then use another button to save them which prompts the app to update the details on the DB.	• User is already logged in. • User only inputs valid inputs for their name, contact details, etc.. • DB and BE are accessible.	• Navigate to profile page from the navbar, view details, click button to edit, edit details, click button to save details.	• Unauthorised user can view or change any of this content. • New details not saved. • Input that doesn't conform to expectations (e.g. invalid email address) saved.
E6	1. From the homepage with all of the events, the user clicks a button with an addition icon. 2. This redirects the user to a form to create a new event. 3. The user is able to enter input and save the new event to the DB.	• The user is logged in. • Valid input is entered into the form (e.g. existing contacts as participants and a valid time). • All required input fields have valid user input. • The BE and DB are accessible.	• The button with the addition icon on the homepage is clicked, details added to new event form, save button clicked resulting in new event being saved.	• New event does not save. • Unauthorised user can view or make changes to any of this content. • User able to save event with invalid or missing essential input.
E7	1. User navigates from homepage to settings page using navbar. 2. User is able to edit their username and password credentials. 3. User is able to click a button to save the new credentials.	• User is already logged in. • BE and DB are accessible.	• Navigate to settings using navbar, edit credentials and then optionally save them so that they are saved to the DB and permanent.	• Unauthorised user can access any of this functionality. • New credentials are not saved to the DB. • New password sent unencrypted to the DB.

E8	1. The user uses the navbar to navigate to their contacts. 2. The user is able to search for a contact by their name or any associated tags that the user has added to the contact profile. 3. The user clicks a button with an addition icon which redirects them to a form to create a new contact. 4. The user is able to fill in the form and clicks on a save button, which prompts the app to save inputs to the DB.	• The user is already logged in. • Only valid input is submitted to the form as per validation code. • All required fields have user input submitted to them. • The BE and DB are accessible.	• Navigate to the contacts page using the navbar, select a contact, click button to edit contact, add new details to contact, attempt to save details.	• Updated details not save to the DB. • Able to save where invalid input submitted to form or not all required fields complete. • Unauthrorised user able to view any of this content.
E9	• User navigates to logout via the navigation bar and is logged out.	• The user is already logged in with a valid account.	• Use the navbar to select the exit icon to logout. • User redirected to login page or landing page.	• User is not logged out. • Unauthorised user is able to view the homepage.

Record of testing

Date	Case tested	Success/failure?	Notes on observed behaviour
18/10/2021	E1	Failure	If the user uses autocomplete to fill in the email address field, access to the app is denied, so we need to fix this. Otherwise, everything is working.
18/10/2021	E2	Success	Correct behaviour demonstrated although the app could benefit from some responsiveness optimisation.
18/10/2021	E3	Success	Nil obvious issues noted.
18/10/2021	E4	Success	Nil obvious issues noted, although the client would like the option of adding a new contact from the event form under participants, as well as what's included in the existing functionality, so we'll be trying to implement this.
18/10/2021	E5	Success	Nil significant issues noted.
18/10/2021	E6	Success	Nil significant issues noted.
18/10/2021	E7	Failure	Form not loading yet, so we're going to have to patch that up.
18/10/2021	E8	Success	Nil significant options noted.
18/10/2021	E9	Failure	Just needing to add route to redirect the user to somewhere useful like the login page again after logging out.
21/10/2021	E1	Success	Autocomplete error now resolved.
21/10/2021	E7	Success	User is now able to save updated credentials; all forms loading.
21/10/2021	E9	Success	User redirected to a landing page after logging out.