

Test Scenarios

These scenarios are written in the Gherkin Syntax and cover all acceptance criteria. There are scenarios for the “Forgot password?” and “Remember Me” functionality, these are placeholders for the future for when this functionality has been implemented.

After drafting the test scenarios, based on the acceptance criteria, I would review them with the engineer assigned to the ticket. This ensures that there haven’t been any late changes to requirements and that all issues are addressed.

The acceptance criteria that a specific scenario covers is noted underneath the title for easy reference when undertaking testing.

Each scenario has a list of prerequisites which cover where testing should be undertaken (In this case *localhost*, but a specific test environment or staging if this were a real ticket) and test data (Email address and password).

To execute the tests, I would make use of the “Test runs” section of Cucumber Studio, if Cucumber Studio is unavailable, I would make use of a spreadsheet that contained all scenarios and an expected and actual outcome. The test run would be linked to the ticket in Jira for visibility.

As well as the test run in Cucumber Studio/a spreadsheet, I would leave a comment on the ticket with the acceptance criteria in a list with the relevant test evidence (Screenshot or video) next to it.

Acceptance Criteria

1. Utilise the Email and password input component
 - a. The email input must contain a valid email address
 - b. The password input is hidden by default
 - c. The password can be toggled visible/not by clicking the eye icon inside the field
2. Utilise the primary button component
 - a. The button is disabled by default
 - b. The button is enabled when the form validation satisfies the following criteria:
 - i. Email must be a valid email address
 - ii. Password must contain an uppercase character
 - iii. Password must contain a lowercase character
 - iv. Password must contain a number
 - v. Password must contain a special character - `! @ # \$ % £ ^ & + = ~ * () _ + [] { } ; ' : " \ | , . < > / ? - +`
 - vi. Password must contain a total of 8 or more characters
3. Form submission -
 - a. On success - the user should see the prompt `Woohoo I'm logged in!`, with the login component disappeared
 - i. A valid user;
 - ii. Email - `admin@example.com`
 - iii. Password - `MySecretPassword88?`;
 - b. An invalid user displays the message - `Error: The email or password you entered is invalid`
 - c. On error - the user should receive the notice component, displaying the message received from the backend
4. Forgot password link (not implement in this ticket)
5. Remember me toggle/checkbox (not implement in this ticket)

Can sign in with provided credentials

Acceptance Criteria 3.a

Prerequisites

Base URL	http://localhost:3000/
Email Address:	admin@example.com
Password:	MySecretPassword88?

Given the user is on the login page
When the user enters "admin@example.com" in the "Email" field
And the user enters "MySecretPassword88?" in the "Password" field
And the user clicks the "Login" button
Then the login component disappears
And the user sees a "Woohoo I'm logged in!" message

Prevented from signing in with an unregistered email address

Acceptance Criteria 1.a & 3.b

Prerequisites

Base URL	http://localhost:3000/
Email Address:	user@example.com
Password:	MySecretPassword88?

Given the user is on the login page
When the user enters "user@example.com" in the "Email" field
And the user enters "MySecretPassword88?" in the "Password" field
And the user clicks the "Login" button
Then the user sees the "Error: The email or password you entered is invalid" message

Incorrectly formatted Email Address

Acceptance Criteria 1.a

Prerequisites

Base URL	http://localhost:3000/
Email Address:	emailaddress.com

Given the user is on the login page
When the user enters "emailaddress.com" in the "Email" field
Then the user sees the "Invalid email" message

The password is not visible by default

Acceptance Criteria 1.b & 1.c

Prerequisites

Base URL	http://localhost:3000/
Password:	MySecretPassword88?

Given the user is on the login page
When the user enters "MySecretPassword88?" in the "Password" field
And the password is hidden by default
When the user clicks the eye icon
Then the password is displayed in plain text
And the icon changes to an eye with a slash

When the user clicks the eye icon
Then the password is hidden
And the icon changes to an eye

"Login" button is disabled by default until a correctly formatted email address and password are entered

Acceptance Criteria 2.a

Prerequisites

Base URL	http://localhost:3000/
Email Address:	admin@example.com
Password:	MySecretPassword88?

Given the user is on the login page
And the user has not entered login credentials
Then the "Login" button is disabled
When the user has entered "admin@example.com" in the "Email" field
And the user has entered "MySecretPassword88?" in the password field
Then the "Login" button is enabled

"Login" button returns to the disabled state when the form is cleared

Prerequisites

Base URL	http://localhost:3000/
Email Address:	admin@example.com
Password:	MySecretPassword88?

Given the user is on the login page
And the form is complete
And the "Login" button is enabled
When the user deletes the password
Then the "Login" button is disabled

Password meets all other criteria but is less than 8 characters

Acceptance Criteria 2.b.vi

Prerequisites

Base URL	http://localhost:3000/
Email Address:	admin@example.com
Password:	Passw0!

Given the user is on the login page
And the user has entered "admin@example.com" in the "Email" field
When the user enters "Passw0!" in the "Password" field
Then the "Login" button is disabled

Password meets all other criteria but doesn't contain an uppercase character

Acceptance Criteria 2.b.ii

Prerequisites

Base URL	http://localhost:3000/
Email Address:	admin@example.com
Password:	passw0r!

Given the user is on the login page
And the user has entered "admin@example.com" in the "Email" field
When the user enters "passw0r!" in the "Password" field
Then the "Login" button is disabled

Password meets all other criteria but doesn't contain a lowercase character

Acceptance Criteria 2.b.iii

Prerequisites

Base URL	http://localhost:3000/
Email Address:	admin@example.com
Password:	PASSW0R!

Given the user is on the login page

And the user has entered "admin@example.com" in the "Email" field

When the user enters "PASSW0R!" in the "Password" field

Then the "Login" button is disabled

Password meets all other criteria but doesn't contain a number

Acceptance Criteria 2.b.iv

Prerequisites

Base URL	http://localhost:3000/
Email Address:	admin@example.com
Password:	Passwor!

Given the user is on the login page

And the user has entered "admin@example.com" in the "Email" field

When the user enters "Passwor!" in the "Password" field

Then the "Login" button is disabled

Password meets all other criteria but doesn't contain a special character

Acceptance Criteria 2.b.v

Prerequisites

Base URL	http://localhost:3000/
Email Address:	admin@example.com
Password:	Passw0rd

Given the user is on the login page

And the user has entered "admin@example.com" in the "Email" field

When the user enters "Passw0rd" in the "Password" field

Then the "Login" button is disabled

The user is logged back in after enabling “Remember Me” when logging in for the first time

Not yet implemented

Acceptance Criteria 4

Prerequisites

Base URL	http://localhost:3000/
Email Address:	admin@example.com
Password:	MySecretPassword88?

Given the user is on the login page

When the user enters “admin@example.com” in the “Email” field

And the user enters “MySecretPassword88?” in the “Password” field

And the user clicks the “Remember Me” check

And the user clicks the “Login” button

Then the login component disappears

And the user sees a “Woohoo I'm logged in!” message

When the user navigates away from the website

And navigates back to the website

Then the user is already logged in

The user is redirected to the forgotten password form when clicking “Forgot password?”

Not yet implemented

Acceptance Criteria 5

Prerequisites

Base URL	http://localhost:3000/
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Given the user is on the login page

When the user clicks “Forgot password?”

Then the user is redirected to the forgotten password form

Notes

- No tests have been written to test the “Remember Me” and “Forgot Password?” functionality due to both of these features not being implemented as part of this ticket. To ensure that these features are checked at a later date, I have created placeholder test scenarios.
- I would recommend that an upper character limit be added to the “Password” field, there doesn’t appear to be any limit. A boundary test could then be run to ensure that passwords above and below the character limit cannot be entered.
- I had considered keeping all login tests in one file, but for readability and ease of maintenance I split them up into separate files.