1. Test Plan

Test Plan for Storabble Login Functionality

Project Name: Storabble – Login Functionality
Tester: Viktor
Test Start Date: [02.06.2025]
Test End Date: [09.06.2025]
Application URL: https://st.storabble.etondigital.com/en/login
HTTP Auth Credentials:

- Username: `storabble`
- Password: `ed2023`

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1. Objective

Ensure the login functionality works as intended and meets the acceptance criteria provided. Testing will include functional, UI/UX, and basic security checks.

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2. Scope

- Valid/Invalid login attempts
- Empty input submission
- Redirect on successful login
- Error handling and messages
- Input validation and feedback
- Basic UI/UX consistency
- Optional: Automation of selected test cases (bonus)

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3. Testing Types

- **Manual Functional Testing**
- **UI/UX Testing**
- **Security Testing (basic)**
- **Automation (Optional with Cypress)**

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4. Test Environment

- **Browsers:** Brave(main), Firefox, Edge
- **OS:** Windows 10, Android 15
- **Tools:** DevTools, Snipit tool, Cypress (optional), Google Docs
- **Device** PC and Samsung S22
- **Environment URL:** https://explorer.blockcontrol.xyz/

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5. Assumptions

- Application is stable and accessible.
- Test data is allowed and not rate-limited.
- Valid credentials exist or can be created for testing.

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6. Deliverables

- Test Plan (this document)
- Test Cases (Excel/Markdown format)
- Test Execution Report
- Optional: Cypress Test Scripts

2. Test Cases

TC ID	Title	Steps	Expected Result	Priority
TC01	Valid login	Enter valid email + password > Click Log in button	User is redirected to 'My storage listings' page.	High
TC02	Invalid password	Enter valid email + wrong password > Click Login	Error message shown, stays on login page	High
TC03	Invalid email format	Enter invalid email or email that doesn't exist> Any password > Click Log in button	Error message for invalid email + Your password is incorrect.	Medium
TC04	Empty fields	Leave both fields empty > Click Log in button	Fields marked required, no redirection	High
TC05	Empty password	Enter valid email > Leave password blank > Click Login	Field marked required,login button is disabled	High
TC06	Empty email	Enter valid pass> Leave email blank > Click Login	Field marked required,no redirection	High
TC07	Password masked	Check if password input is masked by default	Password is displayed as dots	Medium
TC08	Password unmasked	Check if password input is shown if user click on eye icon	Password is not displayed as dots	Medium
TC09	Login out	Login with valid email & pass > Click user icon > Click log out	User is redirected to login page	Low
TC10	Brute force behavior#1	Try 50+ invalid logins quickly	User remains on login page with error messages for invalid email and password	Low
TC11	Brute force behavior#2	Try 50+ refresh page quickly	Nothing happens	Low

TC12	Login While Already Logged In (Double Session)	Log in in Browser Brave > Try logging in again in Browser Edge with same credentials`	Both sessions allowed	Medium
TC13	Login While Already Logged In (Triple Session)	Log in in Browser Brave > Try logging in again in Browser Edge with same credentials > Try logging in again in Browser Chrome with same credentials	All sessions allowed	Medium
TC14	Forgot password button	User clicks on forgot password > Checks email(also check the spam) > use clicks the email and reset password button > user enters new password	Password was successfully changed	High

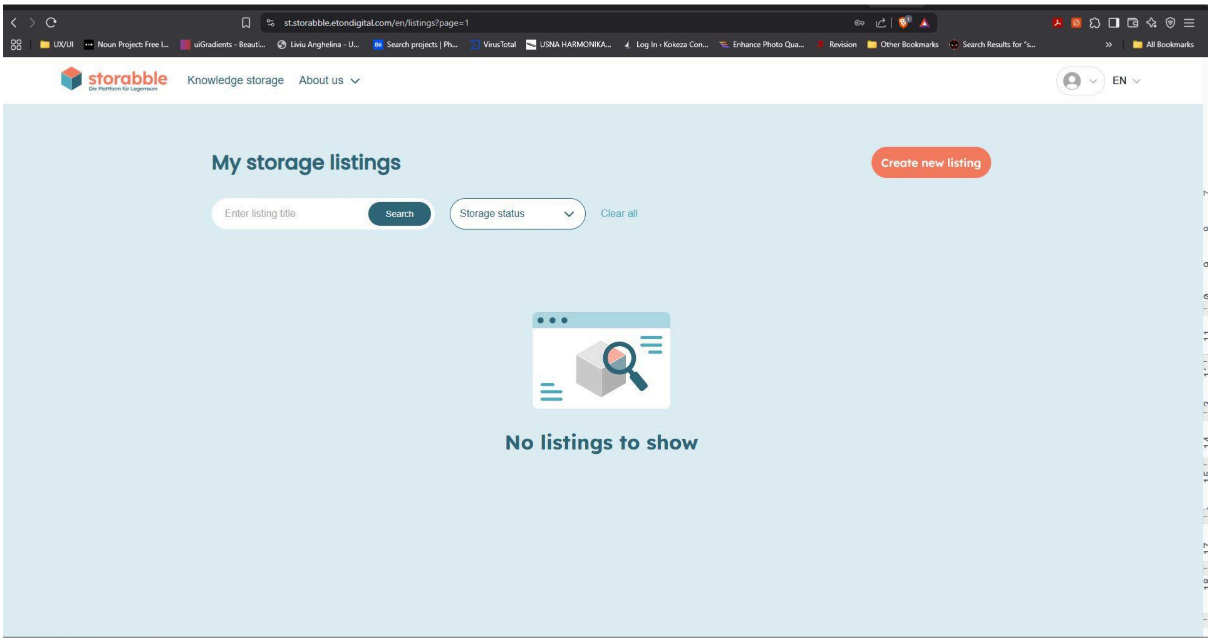
3. Test Execution Report

TC ID	Title	Status	Result Summary	Screenshot
TC01	Valid login	✅ Pass	Successfully logged in and redirected to My storage listings' page.	Attached
TC02	Invalid password	⚠️ N/A	There are 2 error messages displayed, Please enter a valid email address. and Your password is incorrect. There should only be error message for invalid password	Attached
TC03	Invalid email format	✅ Pass	Message shown: "Please enter a valid email address." and "Your password is incorrect."	Attached
TC04	Empty fields	✅ Pass	Cannot submit, fields marked with red	Attached

TC05	Empty password	✅ Pass	Error shown, button is disabled	Attached
TC06	Empty email	✅ Pass	Error shown, button is disabled	Attached
TC07	Password masked	✅ Pass	Password is masked with dots	Attached
TC08	Password unmasked	✅ Pass	Password is not masked with dots and password is shown	Attached
TC09	Login out	❌FAIL	It takes user multiple times clicking “Logout” button to log out	Attached
TC10	Brute force behavior#1	✅ Pass	Beside error for invalid email and password there no other weird behavior	Attached
TC11	Brute force behavior#2	✅ Pass	There no other weird behavior	Attached
TC12	Login While Already Logged In (Double Session)	✅ Pass	Both sessions allowed	Attached
TC13	Login While Already Logged In (Triple Session)	✅ Pass	All sessions allowed	Attached
TC14	Forgot password button	⚠️ N/A	Even though the function works, email is received as spam. Thats needs to be fixed	Attached

Screenshoots:

TC1

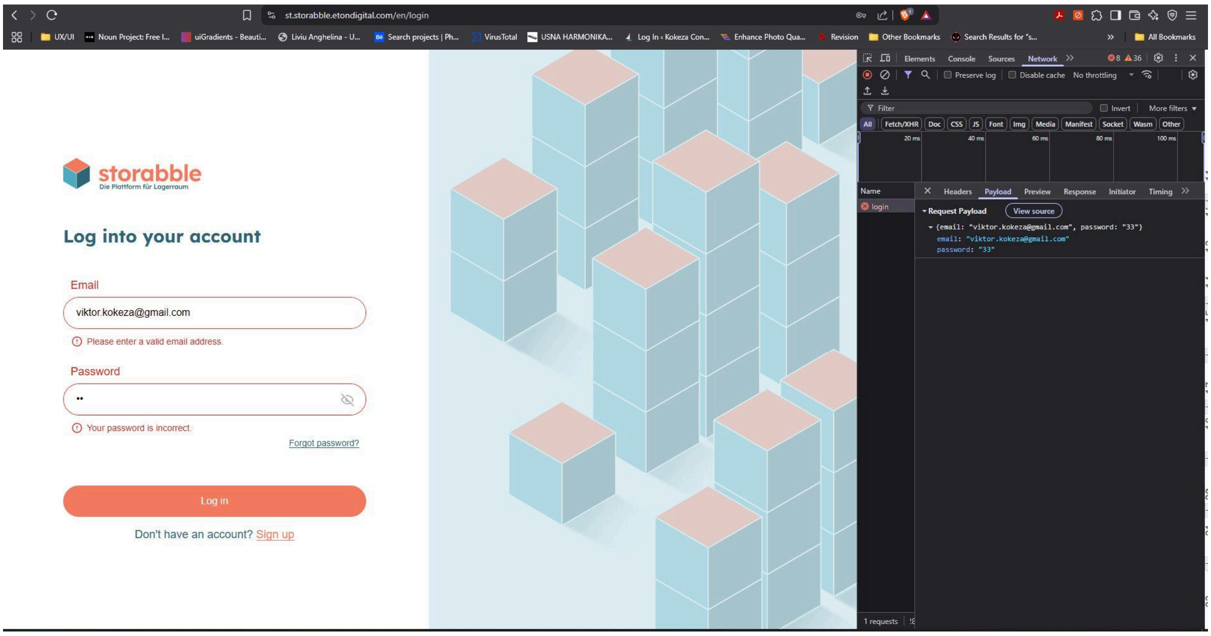


st.storabble.etondigital.com/en/listings?page=1

My storage listings

No listings to show

TC2



st.storabble.etondigital.com/en/login

Log into your account

Email

viktor.kokeza@gmail.com

Please enter a valid email address.

Password

••

Your password is incorrect.

Forgot password?

Log in

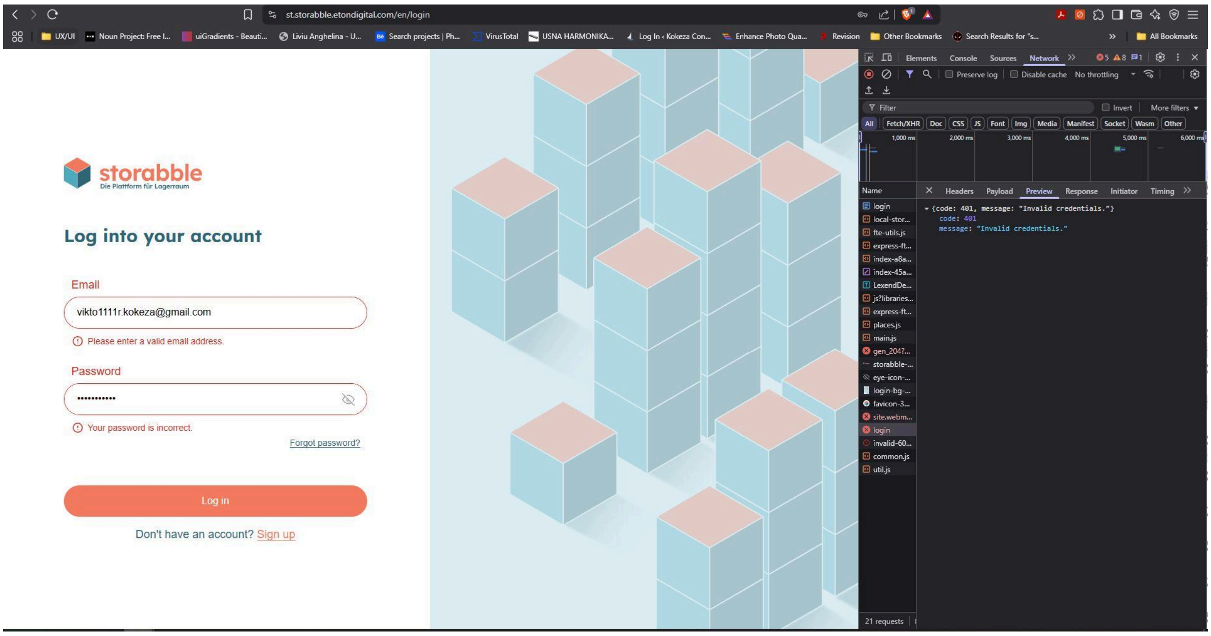
Don't have an account? Sign up

login

Request Payload

```
{email: "viktor.kokeza@gmail.com", password: "33"}
  email: "viktor.kokeza@gmail.com"
  password: "33"
```

TC3



Log into your account

Email

vikto1111r.kokeza@gmail.com

ⓘ Please enter a valid email address.

Password

•••••••••••

ⓘ Your password is incorrect.

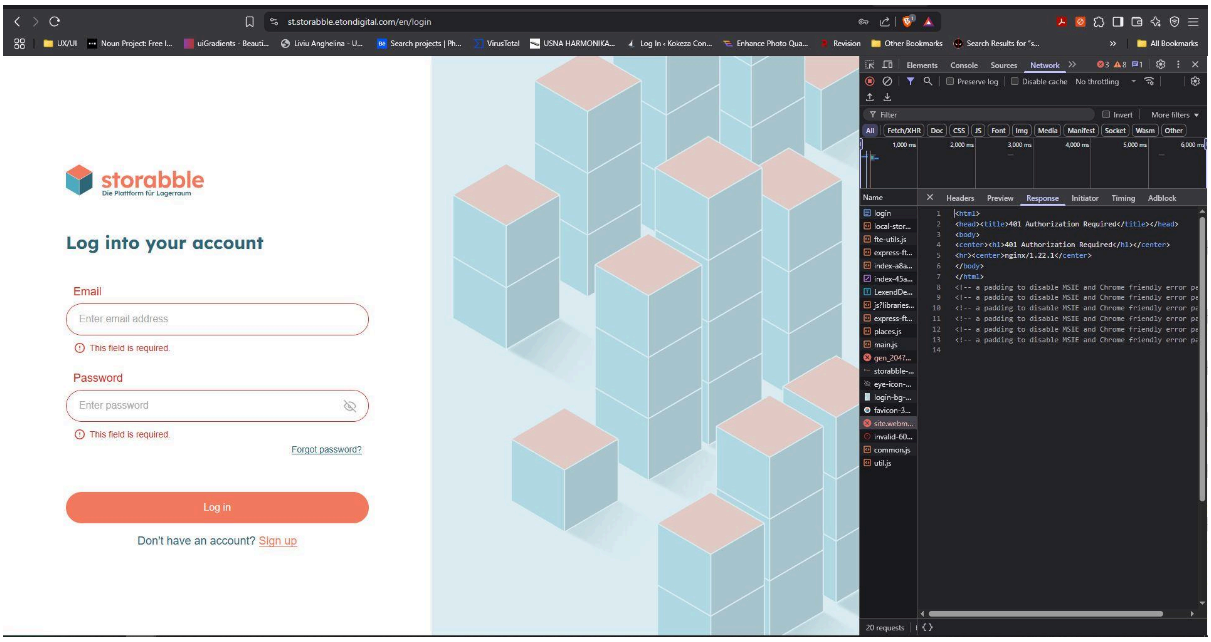
Forgot password?

Log in

Don't have an account? Sign up

```
▾ {code: 401, message: "Invalid credentials."}
    code: 401
    message: "Invalid credentials."
```

TC4



Log into your account

Email

Enter email address

ⓘ This field is required.

Password

Enter password

ⓘ This field is required.

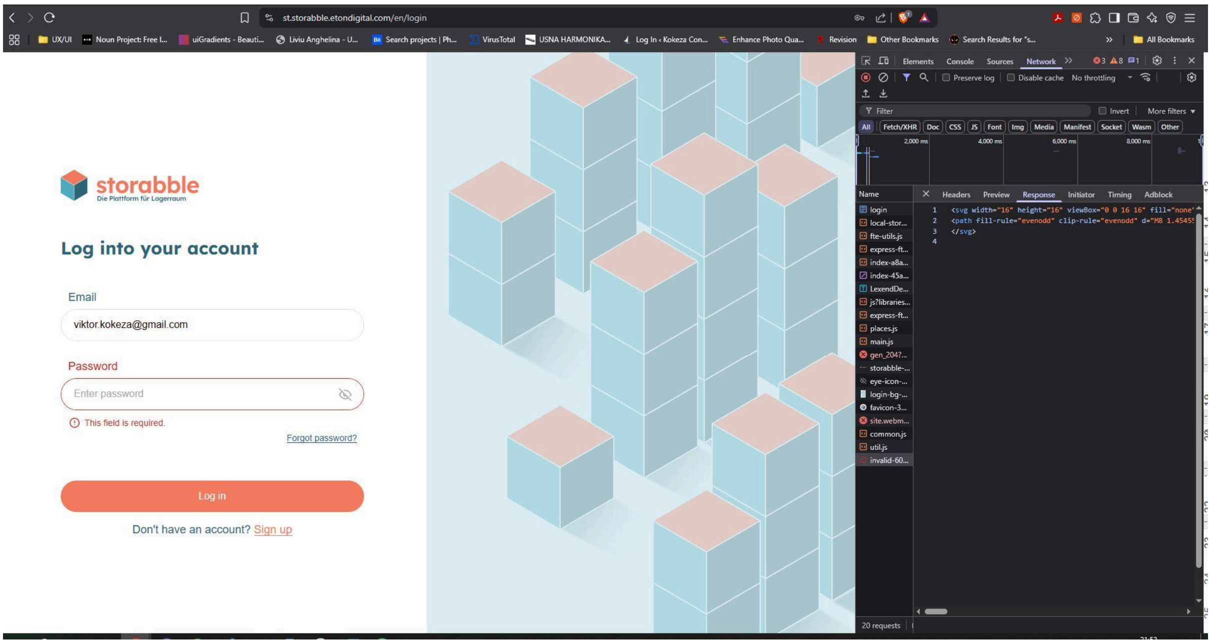
Forgot password?

Log in

Don't have an account? Sign up

```
<html>
<head><title>401 Authorization Required</title></head>
<body>
<center><h1>401 Authorization Required</h1></center>
<hr><center>nginx/1.22.1</center>
</body>
</html>
<!-- a padding to disable MSIE and Chrome friendly error pa
<!-- a padding to disable MSIE and Chrome friendly error pa
<!-- a padding to disable MSIE and Chrome friendly error pa
<!-- a padding to disable MSIE and Chrome friendly error pa
<!-- a padding to disable MSIE and Chrome friendly error pa
<!-- a padding to disable MSIE and Chrome friendly error pa
```

TC5



storabble
Die Plattform für Lagerraum

Log into your account

Email

viktor.kokeza@gmail.com

Password

Enter password

ⓘ This field is required.

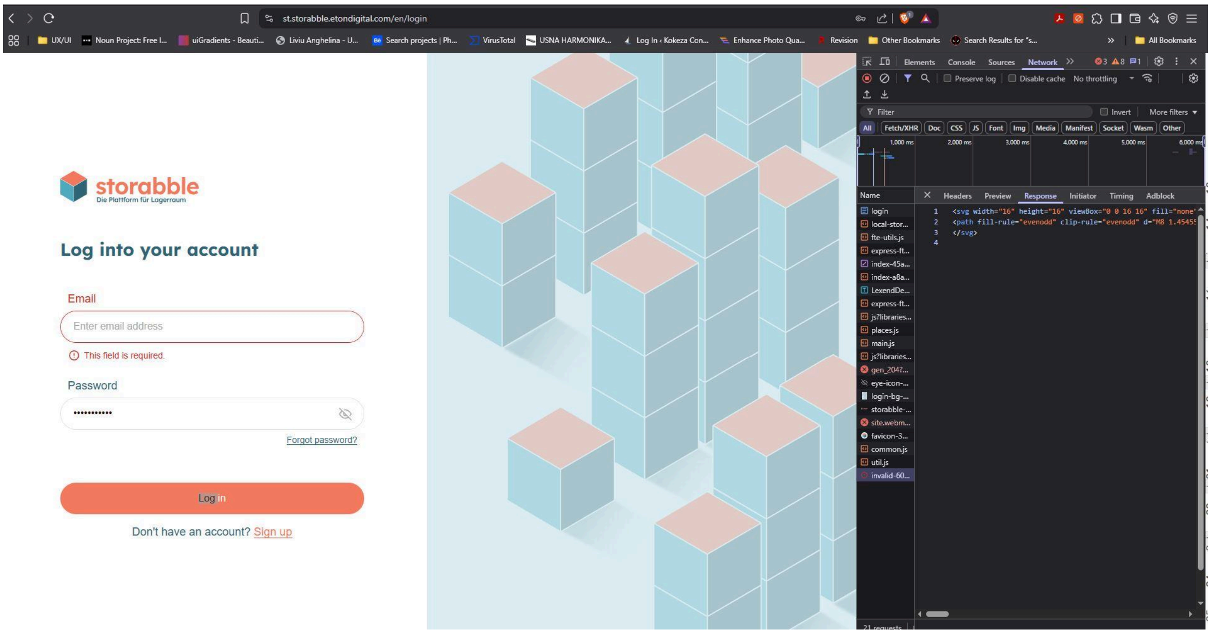
Forgot password?

Log in

Don't have an account? Sign up

```
<svg width="16" height="16" viewBox="0 0 16 16" fill="none"
<path fill-rule="evenodd" clip-rule="evenodd" d="M8 1.45455
</svg>
```

TC6



storabble
Die Plattform für Lagerraum

Log into your account

Email

Enter email address

ⓘ This field is required.

Password

•••••••••••

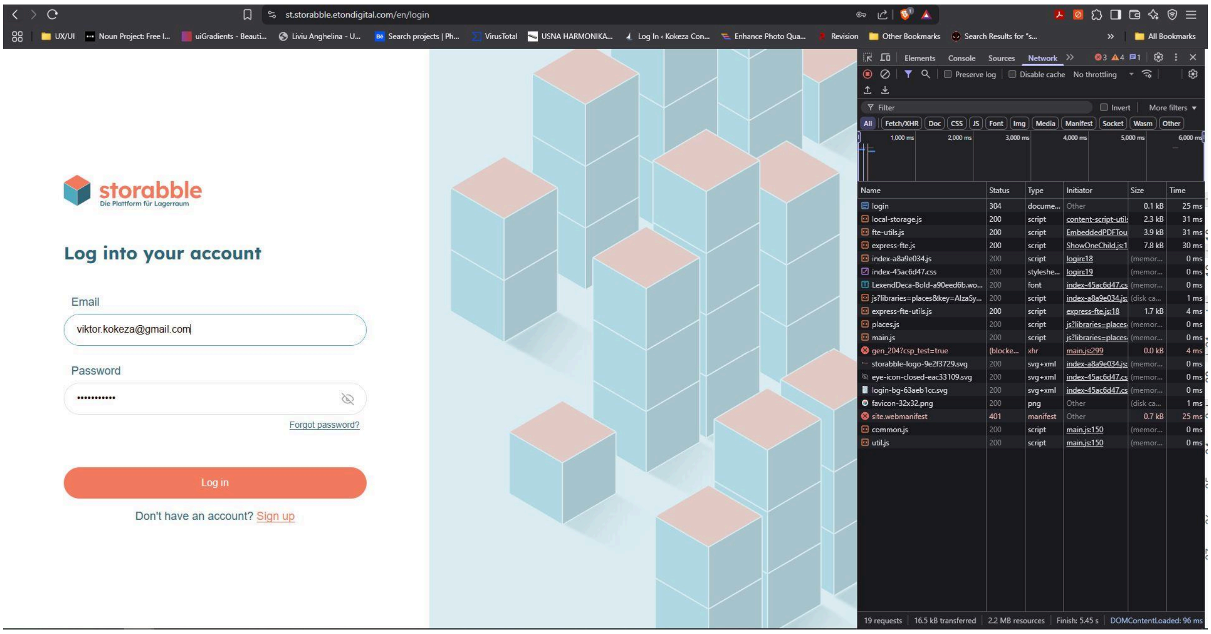
Forgot password?

Log in

Don't have an account? Sign up

```
<svg width="16" height="16" viewBox="0 0 16 16" fill="none"
<path fill-rule="evenodd" clip-rule="evenodd" d="M8 1.45455
</svg>
```

TC7



st.storabble.etondigital.com/en/login

storabble
Die Plattform für Lagerraum

Log into your account

Email

viktor.kokeza@gmail.com

Password

••••••••••••

Forgot password?

Log in

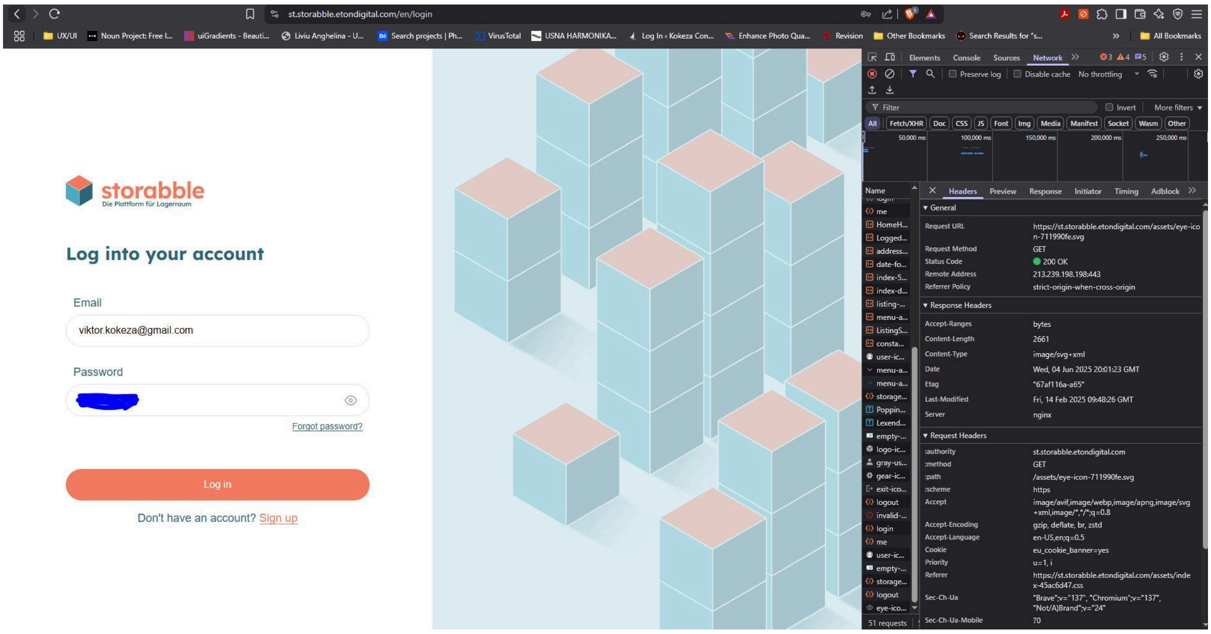
Don't have an account? Sign up

Preserve log | Disable cache | No throttling

Name	Status	Type	Initiator	Size	Time
login	304	docume...	Other	0.1 kB	25 ms
local-storage.js	200	script	content-script-util	2.3 kB	31 ms
fte-utils.js	200	script	EmbeddedPDFTou	3.9 kB	31 ms
express-fte.js	200	script	ShowOneChild.js:1	7.8 kB	30 ms
index-a8a9e034.js	200	script	login:18	(memor...	0 ms
index-45ac6d47.css	200	styleshe...	login:19	(memor...	0 ms
LexendDeca-Bold-a90eed6b.wo...	200	font	index-45ac6d47.cs	(memor...	0 ms
js?libraries=places&key=AlzaSy...	200	script	index-a8a9e034.js:	(disk ca...	1 ms
express-fte-utils.js	200	script	express-fte.js:18	1.7 kB	4 ms
places.js	200	script	js?libraries=places	(memor...	0 ms
main.js	200	script	js?libraries=places	(memor...	0 ms
gen_204?csp_test=true	(blocke...	xhr	main.js:299	0.0 kB	4 ms
storabble-logo-9e2f3729.svg	200	svg+xml	index-a8a9e034.js:	(memor...	0 ms
eye-icon-closed-eac33109.svg	200	svg+xml	index-45ac6d47.cs	(memor...	0 ms
login-bg-63aeb1cc.svg	200	svg+xml	index-45ac6d47.cs	(memor...	0 ms
favicon-32x32.png	200	png	Other	(disk ca...	1 ms
site.webmanifest	401	manifest	Other	0.7 kB	25 ms
common.js	200	script	main.js:150	(memor...	0 ms
util.js	200	script	main.js:150	(memor...	0 ms

19 requests | 16.5 kB transferred | 2.2 MB resources | Finish: 5.45 s | DOMContentLoaded: 96 ms

TC8



st.storabble.etondigital.com/en/login

storabble
Die Plattform für Lagerraum

Log into your account

Email

viktor.kokeza@gmail.com

Password

[redacted]

Forgot password?

Log in

Don't have an account? Sign up

Name: me, HomeH..., Logged..., address..., date-fo..., index-5..., index-d..., listing-..., menu-a..., ListingS..., consta..., user-ic..., menu-a..., menu-a..., storage..., Poppin..., Lexend..., empty-..., logo-ic..., gray-us..., gear-ic..., exit-ico..., logout, invalid-..., login, me, user-ic..., empty-..., storage..., logout, eye-ico...

51 requests

Headers | Preview | Response | Initiator | Timing | Adblock

▼ General

Request URL	https://st.storabble.etondigital.com/assets/eye-icon-711990fe.svg
Request Method	GET
Status Code	● 200 OK
Remote Address	213.239.198.198:443
Referrer Policy	strict-origin-when-cross-origin

▼ Response Headers

Accept-Ranges	bytes
Content-Length	2661
Content-Type	image/svg+xml
Date	Wed, 04 Jun 2025 20:01:23 GMT
Etag	"67af116a-a65"
Last-Modified	Fri, 14 Feb 2025 09:48:26 GMT
Server	nginx

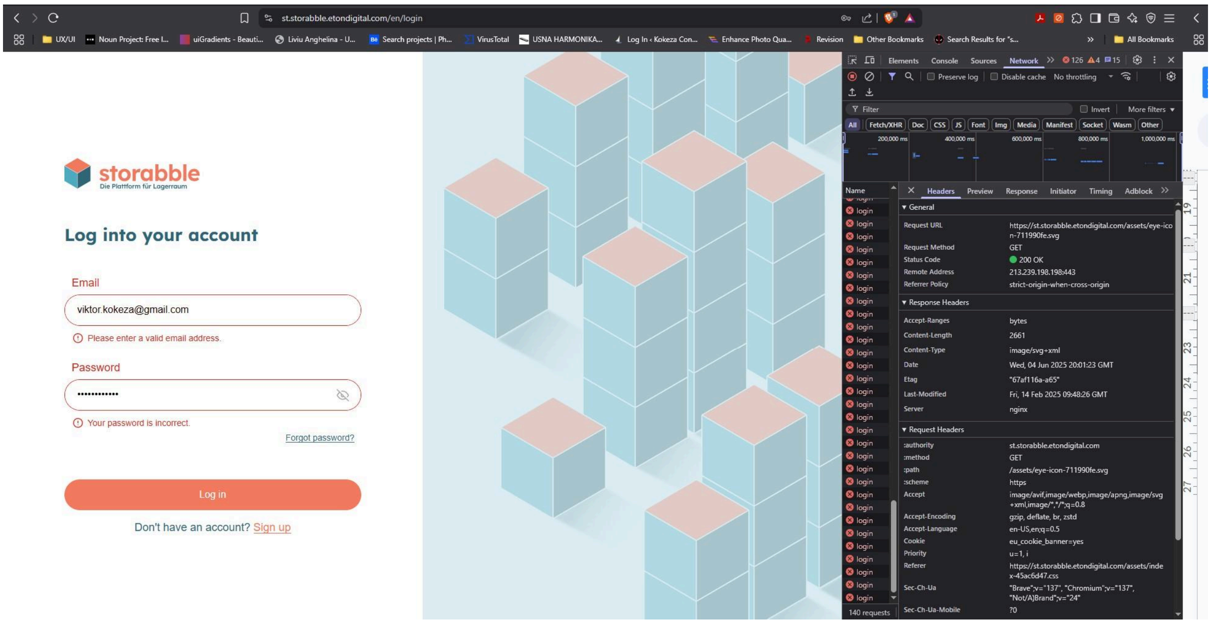
▼ Request Headers

:authority	st.storabble.etondigital.com
:method	GET
:path	/assets/eye-icon-711990fe.svg
:scheme	https
Accept	image/avif,image/webp,image/apng,image/svg+xml,image/*,*/*;q=0.8
Accept-Encoding	gzip, deflate, br, zstd
Accept-Language	en-US,en;q=0.5
Cookie	eu_cookie_banner=yes
Priority	u=1, i
Referer	https://st.storabble.etondigital.com/assets/index-45ac6d47.css
Sec-Ch-Ua	"Brave";v="137", "Chromium";v="137", "Not/A)Brand";v="24"
Sec-Ch-Ua-Mobile	?0

TC9

TC09.mp4 TC09#2.mp4

TC10



st.storabble.etondigital.com/en/login

Log into your account

Email

viktor.kokeza@gmail.com

Please enter a valid email address.

Password

••••••••••••

Your password is incorrect.

Forgot password?

Log in

Don't have an account? Sign up

login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login
login

140 requests

▾ General

Request URL	https://st.storabble.etondigital.com/assets/eye-icon-711990fe.svg
Request Method	GET
Status Code	200 OK
Remote Address	213.239.198.198:443
Referrer Policy	strict-origin-when-cross-origin

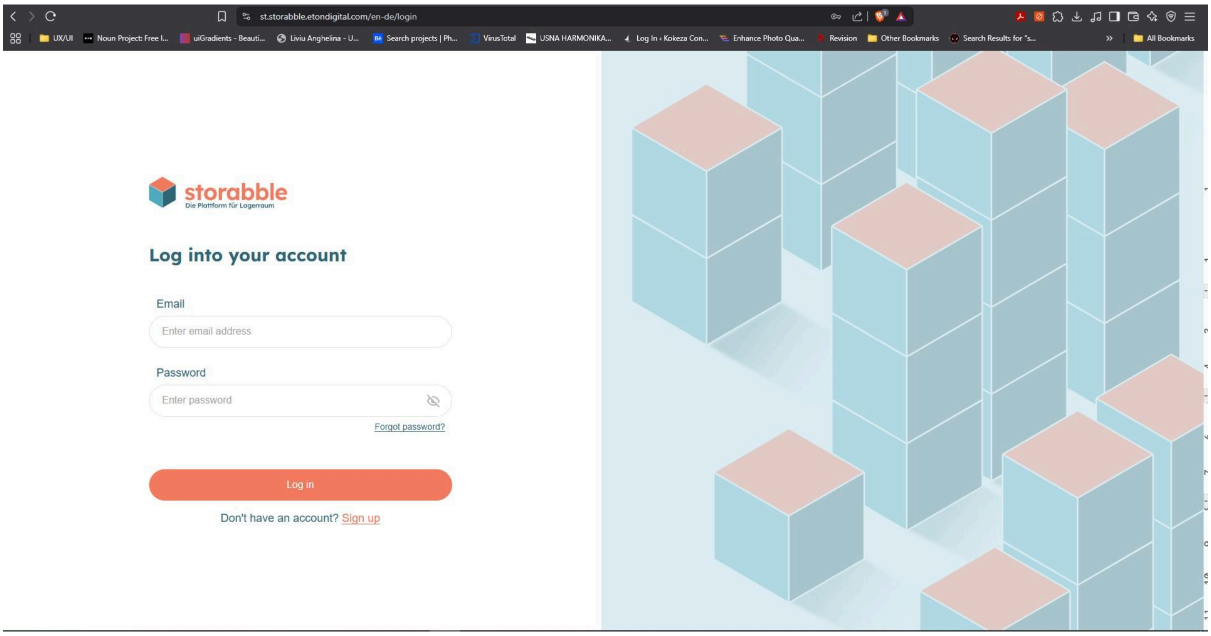
▾ Response Headers

Accept-Ranges	bytes
Content-Length	2661
Content-Type	image/svg+xml
Date	Wed, 04 Jun 2025 20:01:23 GMT
Etag	"67af116a-a65"
Last-Modified	Fri, 14 Feb 2025 09:48:26 GMT
Server	nginx

▾ Request Headers

:authority	st.storabble.etondigital.com
:method	GET
:path	/assets/eye-icon-711990fe.svg
:scheme	https
Accept	image/avif,image/webp,image/apng,image/svg+xml,image/*,*/*;q=0.8
Accept-Encoding	gzip, deflate, br, zstd
Accept-Language	en-US,en;q=0.5
Cookie	eu_cookie_banner=yes
Priority	u=1, i
Referer	https://st.storabble.etondigital.com/assets/index-45ac6d47.css
Sec-Ch-Ua	"Brave";v="137", "Chromium";v="137", "Not/A)Brand";v="24"
Sec-Ch-Ua-Mobile	?0

TC11



st.storabble.etondigital.com/en-de/login

Log into your account

Email

Enter email address

Password

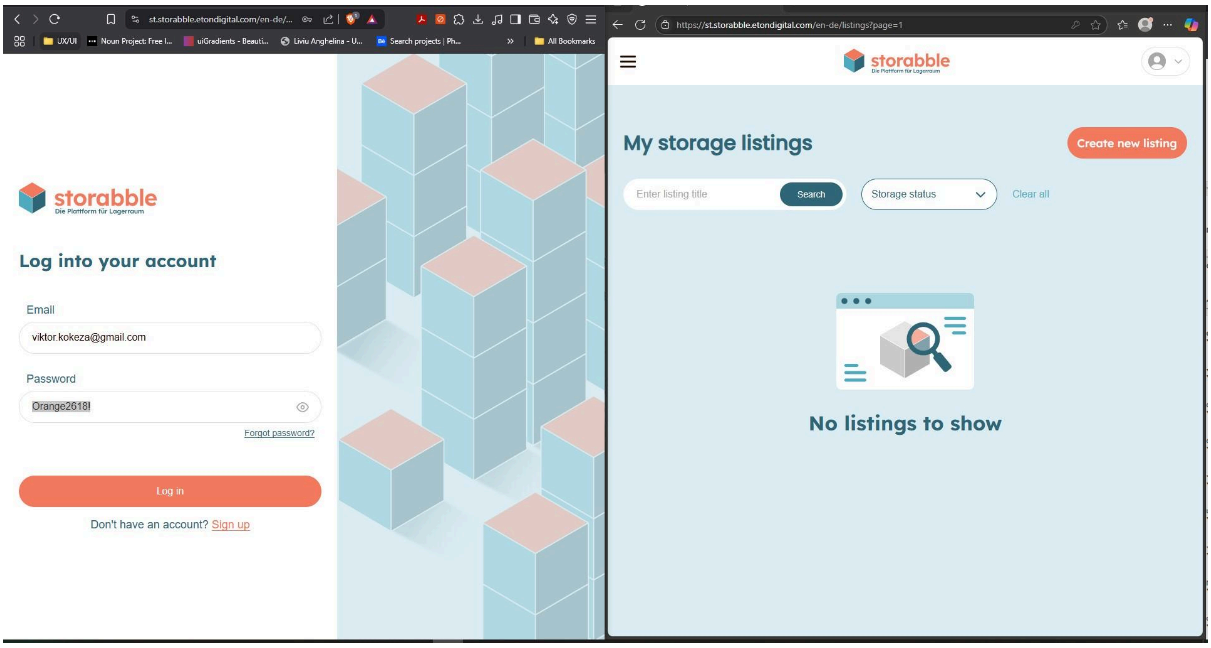
Enter password

Forgot password?

Log in

Don't have an account? Sign up

TC12



st.storabble.etondigital.com/en-de/...

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Log into your account

Email: viktor.kokeza@gmail.com

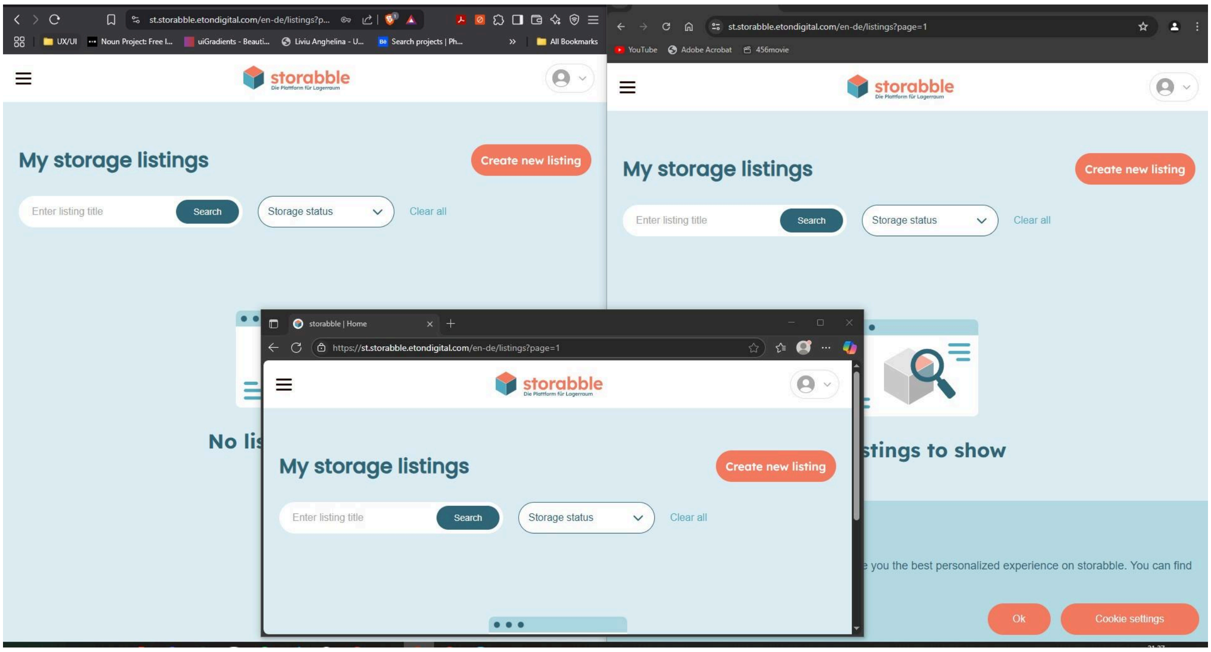
Password: Orange2618!

https://st.storabble.etondigital.com/en-de/listings?page=1

My storage listings

No listings to show

TC13



st.storabble.etondigital.com/en-de/listings?p...

st.storabble.etondigital.com/en-de/listings?page=1

storabble | Home

https://st.storabble.etondigital.com/en-de/listings?page=1

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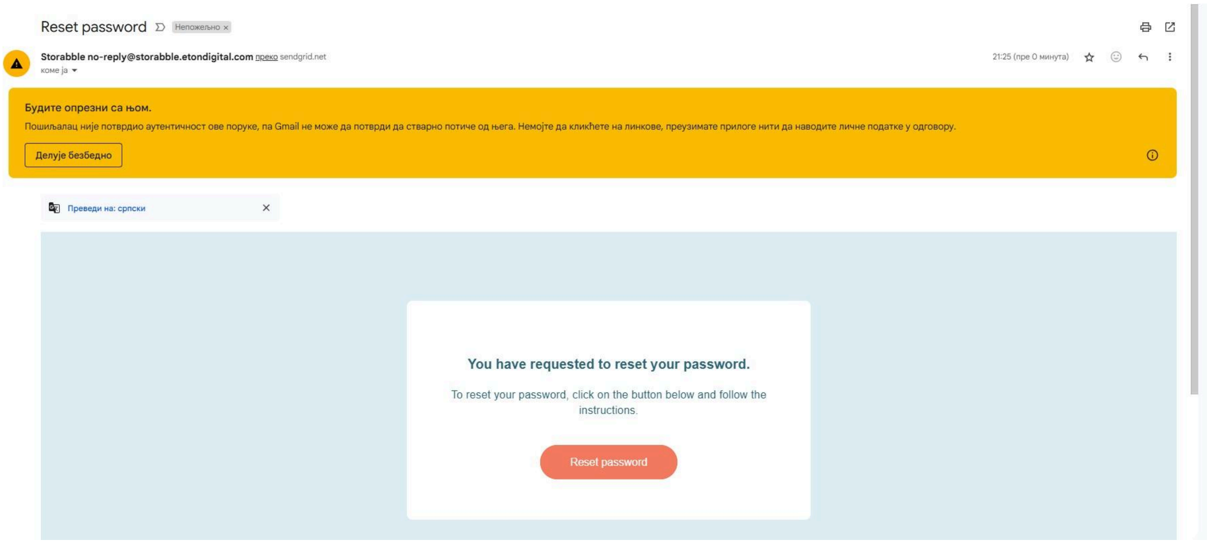
My storage listings

No lis

stings to show

you the best personalized experience on storabble. You can find

TC14



Reset password

Storabble no-reply@storabble.etondigital.com преко sendgrid.net

коме ја

21:25 (пре 0 минута)

Будите опрезни са њом.

Пошиљалац није потврдио аутентичност ове поруке, па Gmail не може да потврди да стварно потиче од њега. Немојте да кликћете на линкове, преузимате прилоге нити да наводите личне податке у одговору.

You have requested to reset your password.

To reset your password, click on the button below and follow the instructions.

4. Cypress Test Script

```
// Define a test suite for Storabble Login functionality
describe('Storabble Login Tests', () => {

  // Define base URL and basic authentication credentials
  const baseUrl = 'https://st.storabble.etondigital.com/en/login';
  const validEmail = 'viktor.kokeza@gmail.com';
  const validPass = 'JA2618ja!';
  const auth = {
    username: 'storabble',
    password: 'ed2023',
  };

  // Before each test, visit the login page using basic auth
  beforeEach(() => {
    cy.visit(baseUrl, {
      auth: auth
    });
  });

  // Test Case 01: Valid login should redirect to listings page
  it('TC01 - Valid login redirects to /en/listings', () => {
    cy.get('.btn-wrapper > :nth-child(1)').click(); // Click login
button on landing page
    cy.get('input[name="email"]').type(validEmail); // Enter valid
email
```

```
    cy.get('input[name="password"]').type(validPass); // Enter valid password
    cy.get('button[type="submit"]').click(); // Submit the form
    cy.url().should('include', '/en/listings'); // Assert redirection to listings page
  });

  // Test Case 02: Invalid password should show error messages
  it('TC02 - Invalid password shows error message', () => {
    cy.get('.btn-wrapper > :nth-child(1)').click(); // Open login form
    cy.get('input[name="email"]').type(validEmail); // Enter valid email
    cy.get('input[name="password"]').type('wrongpassword'); // Enter invalid password
    cy.get('button[type="submit"]').click(); // Submit the form

    // Assert both error messages appear
    cy.get('form > :nth-child(3)').should('exist');
    cy.get('form > :nth-child(5)').should('exist');
  });

  // Test Case 03: Invalid email format should trigger error
  it('TC03 - Invalid email format error message', () => {
    cy.get('.btn-wrapper > :nth-child(1)').click(); // Open login form
    cy.get('input[name="email"]').type('viktor1234567@gmail.com'); // Invalid email format
    cy.get('input[name="password"]').type(validPass); // Valid password
    cy.get('button[type="submit"]').click(); // Submit the form

    // Assert error messages exist
    cy.get('form > :nth-child(3)').should('exist');
    cy.get('form > :nth-child(5)').should('exist');
  });

  // Test Case 04: Submitting empty fields should trigger validation
  it('TC04 - Empty fields prevent submission', () => {
    cy.get('.btn-wrapper > :nth-child(1)').click(); // Open login form
    cy.get('button[type="submit"]').click(); // Submit with empty fields

    // Assert error messages for both fields
    cy.get('form > :nth-child(3)').should('exist');
    cy.get('form > :nth-child(5)').should('exist');
  });

  // Test Case 05: Empty password should show password-specific error
  it('TC05 - Empty password error message', () => {
    cy.get('.btn-wrapper > :nth-child(1)').click(); // Open login form
    cy.get('input[name="email"]').type(validEmail); // Enter email
    cy.get('button[type="submit"]').click(); // Submit without password

    // Assert error message for password
    cy.get('form > :nth-child(5)').should('exist');
  });

  // Test Case 06: Empty email should show email-specific error
  it('TC06 - Empty email error message', () => {
    cy.get('.btn-wrapper > :nth-child(1)').click(); // Open login form
    cy.get('input[name="password"]').type(validPass); // Enter password
    cy.get('button[type="submit"]').click(); // Submit without email

    // Assert error message for email
    cy.get('form > :nth-child(3)').should('exist');
  });

  // Test Case 07: Ensure password input is masked
  it('TC07 - Password masked', () => {
    cy.get('.btn-wrapper > :nth-child(1)').click(); // Open login form
    cy.get('input[name="email"]').type(validEmail); // Enter email
    cy.get('input[name="password"]').type(validPass); // Enter password

    // Assert input is of type password (i.e., masked)
    cy.get('#password')
      .should('have.prop', 'nodeName', 'INPUT') // Ensure it is an input field
      .and('have.attr', 'type', 'password'); // Ensure input type is password
  });

  // Test Case 09: Test logout behavior (requires multiple clicks)
  it('TC09 - Logging out', () => {
    cy.get('.btn-wrapper > :nth-child(1)').click(); // Open login form
    cy.get('input[name="email"]').type(validEmail); // Enter email
    cy.get('input[name="password"]').type(validPass); // Enter password
    cy.get('button[type="submit"]').click(); // Login
    cy.wait(5000); // Wait for login to complete

    // Click logout menu and logout button multiple times due to bug
    cy.get('.c-menu__desk > .c-menu__right--user').click();
    cy.get('.show > :nth-child(4)').click();
    cy.wait(3000);

    cy.get('.c-menu__desk > .c-menu__right--user').click();
    cy.get('.show > :nth-child(4)').click();
    cy.wait(3000);

    cy.get('.c-menu__desk > .c-menu__right--user').click();
    cy.get('.show > :nth-child(4)').click();
    cy.wait(3000);

    // Assert redirection to login page
    cy.url().should('include', '/login');
  });

  // Test Case 10: Brute-force protection test with multiple invalid
login attempts
  it('TC10 - Brute force behavior#1', () => {
    const invalidCredentials = [];

    // Generate 50+ sets of invalid email/password combinations
    for (let i = 1; i <= 50; i++) {
      invalidCredentials.push({
        email: `invalid_user${i}@test.com`,
        password: `wrongPass${i}`
      });
    }

    // Add edge-case invalid credentials
    invalidCredentials.push(
      { email: '', password: '' },
      { email: ' ', password: ' ' },
      { email: 'invalidemail.com', password: '123' },
      { email: 'test@.com', password: ' ' }
    );

    // Iterate through each invalid credential and assert error message
    invalidCredentials.forEach((credentials, index) => {
      it(`Attempt ${index + 1}: login with ${credentials.email} / ${credentials.password}`, () => {
        cy.visit(baseUrl); // Visit login page

        cy.get('#email').clear().type(credentials.email); // Enter invalid email
        cy.get('#password').clear().type(credentials.password); // Enter invalid password
        cy.get('#login-button').click(); // Submit login form

        cy.get('.error-message') // Assert error message appears
          .should('be.visible')
          .and('contain', 'Invalid email or password');
      });
    });
  });


});
```

5.Issues Found

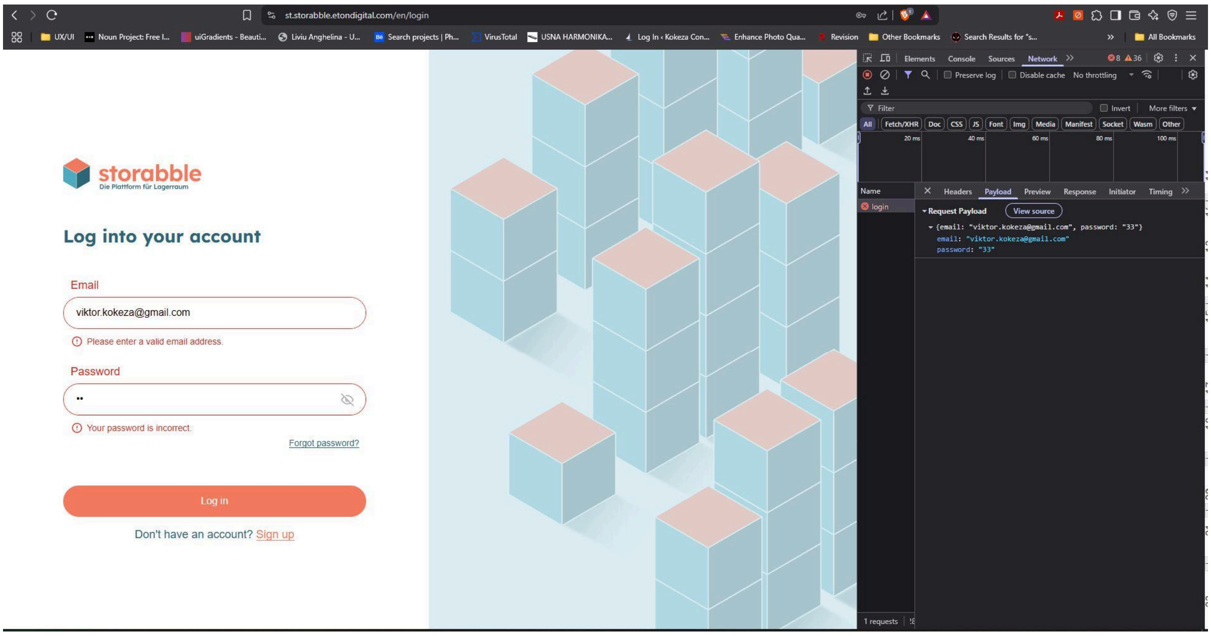
This section describes the problems identified during testing, along with their severity and potential user impact.

1. TC02 – Incorrect Error Message Displayed
Issue: When a user enters a valid email address and an incorrect password, two error messages are shown:

- "Please enter a valid email address."
- "Your password is incorrect."

Only the second message is appropriate in this case. Displaying both messages is misleading and may confuse users, making them think their email is invalid when it is not.
Recommendation: Ensure that only the relevant error message ("Your password is incorrect.") is displayed when the email is valid.
Severity: Medium – Affects user trust and experience during login.

TC#2



Log into your account

Email: viktor.kokeza@gmail.com

Please enter a valid email address.

Password: ••

Your password is incorrect.

Forgot password?

Log in

Don't have an account? Sign up

Request Payload

```
{email: "viktor.kokeza@gmail.com", password: "33"}
  email: "viktor.kokeza@gmail.com"
  password: "33"
```

2. TC09 – Logout Button Requires Multiple Clicks

Issue: Users must click the logout button three or more times before successfully logging out. This behavior was consistently observed during both manual and automated testing.

Evidence: See attached test videos: TC09.mp4 and TC09#2.mp4.

Recommendation: Fix the logout functionality so that a single click reliably logs the user out.

Severity: High – Impacts session security and core functionality.

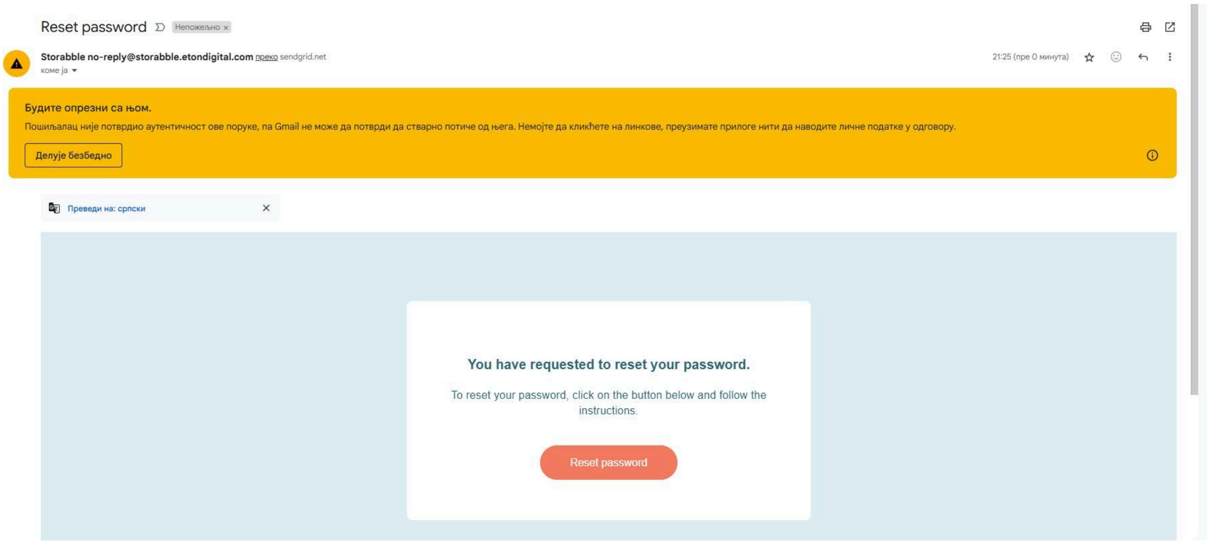
3. **TC14 – Email Delivery to Spam Folder**

Issue: When requesting emails from the site (e.g., password reset or confirmation), the messages are consistently delivered to the spam folder. This occurred across multiple user accounts.

Recommendation:

- Investigate and resolve email deliverability issues (e.g., SPF, DKIM, DMARC settings).
- As a temporary workaround, add a note to the UI: *"Please check your spam folder if you do not see the email in your inbox."*
  Severity: Medium – Affects user onboarding and communication reliability.

TC#14



Reset password

Storabble no-reply@storabble.etondigital.com преко sendgrid.net
коме ја

21:25 (пре 0 минута)

Будите опрезни са њом.
Пошиљалац није потврдио аутентичност ове поруке, па Gmail не може да потврди да стварно потиче од њега. Немојте да кликћете на линкове, преузимате прилоге нити да наводите личне податке у одговору.

You have requested to reset your password.

To reset your password, click on the button below and follow the instructions.

---

6. Test Conclusion

The login functionality of the Storabble application has been thoroughly tested across a range of scenarios, including valid and invalid credentials, input validation, brute-force behavior, and UI/UX consistency. The testing was conducted manually and supplemented with Cypress-based automation for enhanced coverage and repeatability.

✔️ Summary of Results:

- Total Test Cases Executed: 14
- Passed: 11
- Failed / Needs Fixing: 3
- Automation Coverage: Partial (selected functional cases and brute-force simulations: TC01,TC02.TC03, TC04,TC05, TC06, TC07, TC08, TC09 and TC10)

❗ Key Issues Identified:

1. TC02 – Incorrect Error Messages:
   Multiple error messages are shown even when only the password is incorrect, potentially confusing users.

2. TC09 – Logout Behavior Bug:
   Logging out requires multiple clicks. This issue affects both usability and session security.

3. TC14 – Email Deliverability:
   System-generated emails (e.g., for password reset) are consistently delivered to spam folders, affecting user trust and onboarding.

✅ Positive Observations:

- Login redirection and validation logic generally behave as expected.
- Form input masking and required field indicators function correctly.
- Brute-force attempts are handled gracefully with no unexpected behavior or crashes.
- The UI elements are stable across multiple browsers and devices.

🔄 Recommendations:

- Fix error handling logic to ensure only contextually appropriate messages are displayed.
- Resolve logout mechanism so that it logs the user out on the first attempt.
- Improve email deliverability via proper mail server configuration (SPF, DKIM, DMARC).

📌 Overall Assessment:

The login feature of the Storabble platform is functionally stable with minor but critical issues affecting user experience and system reliability. Once the identified issues are resolved, the login module can be considered production-ready.
