

# Backbase Mobile QA

## Test Report

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<b>Purpose</b>	<b>2</b>
<b>Test Environment</b>	<b>2</b>
<b>Test Strategy</b>	<b>2</b>
Functional approach	2
API	2
UI	2
Technical approach	2
<b>Test Results</b>	<b>3</b>
Regression Testing Results	3
List of Issues Found	3
<b>Test Conclusions</b>	<b>3</b>
Functionality	3
Sign up	3
Login	4
Usability	4
Sign Up	4
Sign In	4
Log Out	4
Browser support	4
Issues to discuss	4

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# Purpose

This Test Report provides de summary of the results of tests performed as outlined within this document. It shows the test environment, test results, issues found and conclusions.

# Test Environment

The application was tested on local Windows 10 Home 64bit (Build 18362) and local Firefox (version 70.0.1 (64-bit)) and InternetExplorer (version 11.476.18362.0) browsers. Chrome might work also, but due to issues with my machine, I could not test the UI scenarios on this browser.

# Test Strategy

For the Sign up/Log in/Logout functionality the test strategy is to test separately the API and the UI of the solution.

## Functional approach

### API

A detailed set of positive and negative tests was designed for API to ensure correctness and robustness. This is required because multiple UIs might make use of the API in the future (a possible mobile app, or extra web apps) and implementing all these checks in every application is contra-productive and prone to errors and omissions.

### UI

On UI side the focus was on defining user acceptance tests (end-to-end) for a positive and a negative case per functionality, ensuring that UI and API integrate well with each other and in case of user errors the information coming from API is meaningful and displayed correctly in UI.

Using this approach we get the best results in terms of speed and quality.

## Technical approach

On the technical side, Python + Selenium WebDriver was used for UI automation and Python + Requests library for API automation. For both UI and API, PyTest framework was used for writing the tests. This setup makes it easy to reuse code between UI and API tests (like factories

and utilities), simplify the number of technologies used for testing the whole solution and having all tests in a shared place, with an easy way of checking the diffs.

For handling the basic Auth popup an executable AutoIt script was made for Chrome, Firefox and Internet Explorer.

## Test Results

### Regression Testing Results

The results are recorded in the “Backbase - full stack - Test Cases.pdf” document.

### List of Issues Found

The issues found are recorded in the “Backbase - full stack - Test Cases.pdf” document in the comment field of the test case that uncovered them.

## Test Conclusions

**After executing the tests we have issues related to Functionality, Usability, and browser support. All these issues will pose the risk of users not using the application and reputation loss for the company and should be addressed before going to production.**

### Functionality

#### Sign up

When creating a new account both via API or UI the solution accepts empty passwords

#### Login

On SignUp the username and email are saved in lowercase, and on Login email is compared against the lowercase string. If the user introduces a capital case email the API will not validate the login combination even though is a valid one and broadly used in the industry.

## Usability

### Sign Up

The requirements for the Sign up form's inputs are not clear and in case of error messages, the information presented to the user does not help in identifying what is the real problem. As the UI just displays the error message that comes from API, the backend should be more specific with the error messages.

### Sign In

Sign in form's front-end and back-end are not consistent. Front-end asks for username and password and the back-end expects email and password.

### Log Out

Logout functionality should be more visible, to be used more often and to better secure the user account.

## Browser support

The web app does not work on local Internet Explorer on Windows 10. After initial basic authentication, the content of the home page does not load properly in the browser.

## Issues to discuss

1. No "I forgot my password" functionality is provided.
2. On Sign up the provided email address is not verified that it belongs to the user. This will probably cause issues when implementing the "I forgot my password" functionality or sending notifications to users for existing and future functionality (new comments on their posts, new posts that match their tags, etc.)
3. Logout option should be more visible. Placing it on the navbar would be a good idea to make the user use it and also for providing more security to user's accounts on shared machines.