

Test plan

General Information

Project name	Testing an online banking website
Created by	Paula Humeniuk
Preparation date	22/02/2024
Version	1.0
Status	Approved

Revision history



Version	Description	Author	Date	Approved by	
				Author	Date
1.0	Document created	Paula Humeniuk	15/02/2024	John Doe	22/02/2024

Table of contents

1. Test objectives
2. Scope
3. Test subject
4. Acceptance criteria
5. Failure criteria
6. Entry criteria
7. Exit Criteria
8. Functionalities to test
9. Test environment
10. Defect categories
11. Test site
12. Schedule & Estimation
13. Test deliverables/Reports
14. Tools
15. List of browsers
16. Incident management
17. Roles and responsibilities

1. Test objectives

The purpose of creating this test plan is to thoroughly test the functionality of the website based on the provided specifications. The website address is <https://www.hsbc.co.uk/>

All recognized defects  will be corrected by the developers and passed on to testers for retests and regression testing .

2. Scope

Test levels covered in the test plan:

- Unit Testing
- API Testing
- Integration Testing
- System testing

Types of tests covered in the test plan:

- Functional tests - the software will be validated against the provided specifications
- Integration tests - Api testing
- Automatic tests - implementation of automatic tests for key system functionalities according to the provided test cases
- UI Testing - focused on checking the appearance, functionality, and usability mainly of Graphical user interface (GUI)
- Compatibility Testing - 4 newest web browsers and devices

Types of tests excluded from the test plan:

- Security testing - lack of specialists in the field of pen testing within the team. This field of testing will be outsourced.

3. Test subject

The subject of tests is the HSBC UK website available at <https://www.hsbc.co.uk/> along with all its functionalities.

4. Acceptance criteria

1. Performance tests

- Server response time cannot be longer than 500 ms
- The software must withstand the load of 1,000 users at the same time

2. Functional tests

- The whole software product works according to the requirements, and no significant errors appear in the application. A software product must pass all the planned tests

3. Automatic tests

- All test cases have been automated
 - Tests have been connected with CI/CD tool - Jenkins
-

5. Failure criteria 🚫

1. Performance tests

- Server response time is longer than 500 ms
- The software cannot handle the load of 1,000 users at the same time

2. Functional tests

- The whole software product won't work according to the requirements, and significant errors appear in the application. A software product won't pass all the planned tests

3. Automatic tests

- Test cases haven't been automated
 - Tests haven't been connected with CI/CD tool - Jenkins
-

6. Entry criteria 🚪

- Test environment launched
 - The test environment must be close to the production
 - Access to IOS device
-

7. Exit Criteria 🤝

- All test cases have been executed
 - All types and levels of test covered by this test plan have been performed
 - All defects have been fixed
-

8. Functionalities to test 🔍

- Logging into the portal
 - Updating user's details
 - Making a payment / sending money
 - Applying to increase, decrease or removing overdraft
 - Set up, amend or cancel a standing order.
 - Integration with the international transfers
 - UI - validation of data fields, navigational elements, menu items and all other main pieces of GUI
-

9. Test environment 🌲

Tests of the online bank website will be carried out on a dedicated server <https://www.test-hsbc.co.uk> . The testing environment has parameters very close to production.

Specification:

Processor: 2GHz

RAM: 4GB

Disk: 240 GB

System: Linux Debian 17

Tests will be performed using the following physical devices:

1. Personal computer (PC)
 - Processor I3 3,6 GHz
 - RAM: 16GB
2. Iphone 13
 - Processor: Apple A15 Bionic
 - RAM: 4GB
 - IOS version 17

10. Defect priorities

We distinguish 5 priorities of defects in our test plan:

- Malfunction
- Blocking error
- High priority
- Medium priority
- Low priority

11. Test site

Tests will be run in at the headquarters of the software development company.

12. Schedule & Estimation

1. Static testing:

- Verification of specifications
- Verification of User Stories



Time: 10h

2. Functional testing:

- Verification of implemented functionalities in accordance with the requirements
- Test cases execution
- Reporting all defects



Time: 30h

3. Performance testing:

- Server response time verification
- Load test

 Time: 14h

4. Automatic testing:

- Preparation of test structure
- Implementation of automatic tests based on provided test cases
- Connection of tests with Jenkins tool
- Connecting tests with Grafana tool

 Time: 40h

13. Test deliverables/Reports

- Test cases
- User stories
- Defect Report
- Automatic test scripts
- Performance Testing Metrics

14. Tools

1. Issue tracking:

- Jira

2. Test cases:

- TestLink
- XRay

3. Automation:

- WebDriverIO
- SuperTest
- Allure
- Jenkins
- Grafana

4. Performance testing:

- Jmeter

5. Screenshots and screencast software:

- PicPick
- ShareX

15. List of browsers

- Chrome
- FireFox
- Edge
- Safari

16. Incident management 🚩

Once a defect is detected, it will be reported in the defect management system - Jira. The defect will be given a priority and a person responsible for fixing it will be assigned to it.

When the developer corrects such an error, it will then be passed on to the tester for both, retesting and a regression testing.

If the defect is repaired incorrectly and the bug still occurs, an issue will be re-opened and assigned to the developer for re-analysis.

17. Roles and responsibilities within Test Team 🧑🧑🧑🧑

- Project Manager - Managing the whole testing process and providing all the needed resources for the testing activities.
- QA Tech Lead - Managing the QA team from a technical perspective and analyzing the tasks and distributing them between team members. Additionally, creating test documentation, including test cases, test plans, etc. and supporting Project Manager
- QA Engineer - executing tests and logging all found errors into the bug tracking system.