**Auth – Authentication Application**

Product Release 0.1

**Test Plan**

Revision History

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# Introduction

This documents provides the test plan for an online authentication application. It contains the testing methods that were applied for manual and automation testing.

## Objectives

Through the automation and manual testing the application will become more stable. The manual testing will be made while the application is developed, while the automation testing will main cover the application’s functionalities.

# Requirements for test

## Environmental needs

The Authentication application will be tested on the following browsers:

* Google Chrome
* Mozilla Firefox
* Opera
* Internet Explorer 10
* Safari

***The browsers versions should be the latest, except Internet Explorer.***

For the automation testing will be used the following resources:

IDE - IntelliJ IDEA 14.0.3 - Ultimate Edition

Programming Language – Java 8

Software project management – Maven 3.3.3

Distributed revision control system – GIT

Testing Framework – Selenium, JUnit

***Important information:***

*After the project is loaded into IntelliJ please set the Project SDK to “Java 1.8” and Project Language Level to “7 – Diamonds, ARM, multi-catch “.*

*The used jar dependencies are explained the in the pom.xml, one of the Maven configuration file.*

*The necessary web drivers and JSON files can be found in the resource directory.*

*For application logging is used Log4J, and the configuration file can also be found in the resource directory, along with the application log file.*

# Test items

Tested items: Authentication web application.

## Test Strategy

The manual testing contains the test described in the “Authentication - Manual Testing” document. The automated tests are marked in the external document.

The tests are targeting the functionality, usability, acceptance, security and the interfacing of the Authentication application.

## Testing methodologies

**Usability testing**

For an application to be effective, the user interfaces should comply to standards. Follow globally accepted conventions wherever applicable.

**User acceptance testing**

The objective of user acceptance testing is to make sure your application meets the expectations of the user. It ensures that the application is fit enough to be deployed and used effectively.

**Security testing**

Security testing for your application is very important if data leaks or modifications are unacceptable and intolerable.

**Functional testing**

Functional testing ensures that individual functions are working well. Test cases should ensure that boundary conditions are tested. Invalid inputs should prompt appropriate error messages.

# Running Authentication or REST Service automation tests

To run the Authentication automation tests please follow this steps:

1. Open IntelliJ IDEA
2. Import the project like a Maven Project

To run the Authentication automation tests please follow this steps:

1. Expand the “src/java/LoginLogOutTests/LoginTests” package
2. Open the “LoginTest” class
3. Choose your browser, by modifying the “setup” method, at line 27, “BrowserConnection.startBrowser(BrowserConnection.Browser.CHROME);”(default browser is Google Chrome)
4. Replace “CHROME”, with your browser choice
5. Run the “RunLoginTests” class

To run the Rest Service tests please follow this steps:

1. Expand the “src/java/RestTesting/” package
2. Run the “RunRestServiceTests” class