

# 1. Introduction

## 1.1 Purpose

The document details the plan for testing the web portal serving as the workplace community for software developers. Portal is made for Slovene speaking audience and users can authorize, share their salary and review salaries in other IT companies.

## 1.2 Scope

This test plan covers functional and non-functional testing of the web site.

# 2. Test Objectives

## 2.1 Functional Objectives

- \* Ensure that users can authorize and share their salaries.
- \* Ensure that users can view all salary information.
- \* Ensure that the site can handle multiple concurrent users.
- \* Ensure that user data is securely stored and protected.

## 2.2 Non-Functional Objectives

- \* Ensure that the site loads quickly and without errors.
- \* Ensure that the site is responsive, accessible and easy to use.
- \* Ensure that the site is compatible with mobile devices and browsers.

# 3. Test Environment

## 3.1 Hardware Requirements

- \* Company authorized laptop computer
- \* Mobile device
- \* Internet connection

## 3.2 Software Requirements

- \* The software must be able to run on AWS cloud infrastructure with basic CI/CD practices implemented.
- \* Jenkins must be used as the Continuous Integration tool.
- \* Environments and services must be accessible only through the corporate VPN.
- \* Application must be able to be tested using a smoke test that is automated with Selenium.
- \* JIRA must be used for issue tracking and project management.

- \* The testing process must be managed using QMetry Test Management.
- \* Services must be compatible with Microsoft Teams for communication and collaboration between team members.

### **3.3 Other Requirements**

- \* To provide testers with access to the MS SQL database for relational testing, IT would need to create user accounts and grant appropriate permissions to access the database. The QA Lead must work with IT to identify which testers require access and what level of access is needed.

### **3.4 Deployment Environments**

- \* INT - All automated tests will be performed on INT environment. Unit and integration tests will be run on this environment.
- \* DEV - Completed features are deployed to Development environment. QA team will perform manual testing on the DEV environment. No additional staging environment is deemed as needed.
- \* PROD - When the team is satisfied with its quality the release is promoted to the production environment.

## **4. Test Approach**

### **4.1 Testing Types**

- \* Functional testing
- \* Usability testing
- \* Performance testing
- \* Security testing

### **4.2 Testing Methodologies**

- \* The testing approach for this project will be to conduct both manual and automated testing.
- \* The smoke test will be fully automated using Selenium, with the goal of quickly identifying any major issues with the software before more in-depth testing is performed.
- \* It should be noted that only the smoke test will be automated, with all other testing conducted manually.
- \* Manual testing will be conducted using a combination of exploratory testing and scripted test cases, as appropriate.
- \* The testing approach will include manual testing by a Slovene-speaking user to evaluate the content and functionality of the portal in the Slovene language.
- \* Test results will be logged in QMetry Test Management, with defects tracked and managed through JIRA.
- \* The testing process will be closely integrated with the CI/CD pipeline, with Jenkins used to

trigger testing as part of the build process.

## **5. Test Cases**

### **5.1 Authorization**

- \* Verify that users can authorize with social platform of choice.
- \* Verify that incorrect login credentials will result in an error message.

### **5.2 Salary Information**

- \* Verify that users can enter their salary information.
- \* Verify that users can view all salary information.

### **5.3 Concurrent Users**

- \* Verify that the site can handle multiple concurrent users without errors.
- \* Verify that user data is updated correctly when multiple users are accessing the site simultaneously.

### **5.4 Usability**

- \* Verify that the site is easy to navigate and use.
- \* Verify that the site is visually appealing and professional.

### **5.5 Performance**

- \* Verify that the site loads quickly and without errors.
- \* Verify that the site can handle a large volume of data without performance issues.

### **5.6 Security**

- \* Verify that user data is securely stored and protected.
- \* Verify that user data is not accessible to unauthorized users.

## **6. Test Schedule**

### **6.1 Analyzing Requirements**

**Start Date: March 7, 2023**

**End Date: March 8, 2023**

## 6.2 Test Planning

**Start Date: March 9, 2023**

**End Date: March 12, 2023**

- \* Define the scope and objectives of testing activities
- \* Identify the necessary test environment configurations for different test phases
- \* Determine the required test data sets for each test phase
- \* Develop the testing strategy, methodologies, and procedures
- \* Assign roles and responsibilities to testing team members
- \* Establish the testing schedule and associated timelines
- \* Identify potential testing risks and issues
- \* Draft the test plan and gain approval from relevant stakeholders

## 6.3 Test Design

**Start Date: March 12, 2023**

**End Date: March 25, 2023**

- \* Select test cases to be executed for the automated smoke test
- \* Develop comprehensive test scenarios and test cases for manual testing
- \* Create automated test scripts for the smoke test using Selenium
- \* Review and refine test design documents to ensure accuracy and completeness

## 6.4 Test Execution

**Start Date: March 25, 2023**

**End Date: April 7, 2023**

- \* Execute the automated smoke test using Jenkins and Selenium
- \* Perform manual test case and scenario executions
- \* Document defects using JIRA and track them through to resolution
- \* Monitor testing progress and report on results
- \* Conduct regression testing when necessary
- \* Re-test defects that have been fixed
- \* Obtain approval of the test results from all relevant stakeholders

## **7. Test Deliverables**

### **7.1 Test Plan Document**

### **7.2 Test Results Document**

### **7.3 Defect Report Document**

## **8. Test Risks and Assumptions**

### **8.1 Risks**

- \* User data such as passwords and social credentials is handled by third party and secure services. However, anonymity of users that reviewed companies could be compromised. This includes names and social media profile urls.
- \* Database issues would impact most of the sections.
- \* The site may not function properly if there are compatibility issues with certain devices or browsers.

### **8.2 Assumptions**

- \* The site is developed using industry best practices for security and data protection.
- \* No sensitive data such as user passwords is stored.
- \* The site will be compatible with common devices and browsers.