

Project Assignment

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# **QA Project**

This document describes a **project assignment** for the **QA cohort** at Telerik Academy.

## **Project Description**

Your task is to verify that the delivered software meets the user requirements and is production ready and to ensure stability by providing automated tests.

# **Functional Requirements**

**Planning**

You should prepare a plan with estimates of the time and effort needed for each activity.

**Test Plan**

Describe all activities needed to verify the quality of the product. Follow the templates and guides covered in the materials from the lectures.

**Test Cases**

Develop high level test cases that will verify a required quality level, that guarantees customer requirements coverage.

**Execution**

**Manual**

Conduct an exploratory testing for the whole system and cover main functionalities and happy paths. Create a coverage report, that shows which cases are executed and with what result. Make sure to prioritize all scenarios.

**Automation**

Create automated suites that cover at least the happy paths. Make sure to have reports of each execution, so you can provide info on how many tests pass/fail.

**Reporting**

# **Technical Requirements**

* You should create functional tests covering the UI using one of two approaches:
  + Jython+Sikuli
  + Java+Selenium
* A middle tier tests should be created either using one of the following:
  + SOAP UI
  + Postman
  + Java/Python code
* Use git/gitlab as source code management tool.
* Use a bug-tracking tool to log issues(git/bugzilla/etc.)

# **Optional Requirements**

* Test plan.
* Test report.

# **Deliverables**

* Automated tests code/repository link
* Script for execution of automated tests
* A document with required prerequisites to run the tests
* A document with a short description how to run the tests, how to filter them, etc.
* High level test cases

# **Public Project Defense**

Each student should present (the presentation should not take more than 10 minutes):

* The functionality they tested, and the main scenarios covered.
* The automated tests created by them and the specific functions needed for that.
* A sample run of a single test/test suite.
* A report with the testing activities performed (e.g. tests coverage and results, issues logged, issues fixed by priority/severity, created automated tests).

# **Expectations**

You MUST understand the project you have created.

Any defects or incomplete functionality MUST be properly documented and secured.

It’s OK if your project has flaws or is missing one or two requirements. What’s not OK is if you don’t know what’s working and what isn’t and if you present an incomplete project as functional.

Some things you need to be able to explain during your project defense:

* What are the most important things you’ve learned while working on this project?
* What are the worst “hacks” in the project, or where do you think it needs more work?
* What would you do differently if you were making the project again?