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| Quality Management Strategty  Online Learning Platform | Prince2  Author: Tudor Stoica  Owner: Tudor Stoica  Version: 1.0 |

# Quality Management Strategy History

## Revision History

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| --- | --- | --- | --- |
| version | Revision date | Implemented by | Reason |
| 1.0 | 04-03-2016 | Tudor Stoica | Quality Assurance |
| 1.0.1 | 16-03-2016 | Åsa Wegelius | Adjusted to fit the project. |
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|  |  |  |  |

## Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Name | Title | Date |
| 1.0 | Tudor Stoica | Quality Manager | 04-03-2016 |
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## Distribution

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| --- | --- | --- | --- |
| Version | Name | Title | Date |
| 1.0 | Jarl Tuxen | Steering Commitee | 04-03-2016 |
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1. Introduction

The purpose of Quality Strategy is to assure that the final product respects the quality standards of software products.

The Quality assurance process will be coordinated by the Project Manager together with the Testing Leader

# Quality management procedure

The quality process will be assured by implementing the agile methodology as the product development is based on the agile approach.

# Quality planning

Quality expectations and methods to assure them:

|  |  |  |  |
| --- | --- | --- | --- |
| Quality Expectations | DB portability | Priority | H |
| Acceptance Method | Use of a ORM (Hibernate) | | |
| Tolerance | none | | |
| Acceptance Responsible |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Quality Expectations | Portability | Priority | H |
| Acceptance Method | Java + JRE runs on any operating system that supports the Java standard | | |
| Tolerance |  | | |
| Acceptance Responsible |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Quality Expectations | Browser portability | Priority | H |
| Acceptance Method | Runs on Explorer, Safari, Firefox, Chrome | | |
| Tolerance |  | | |
| Acceptance Responsible |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Quality Expectations | Easy to maintain | Priority | H |
| Acceptance Method | Separation of Concern, Folder structure match Content structure, follow coding and folder conventions, code is either self-explainable or commented, low coupling – high coherence | | |
| Tolerance | none | | |
| Acceptance Responsible |  | | |

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| --- | --- | --- | --- |
| Quality Expectations | Installability | Priority | H |
| Acceptance Method | Use of Maven | | |
| Tolerance |  | | |
| Acceptance Responsible |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Quality Expectations | Findability | Priority |  |
| Acceptance Method | Search engine optimization | | |
| Tolerance |  | | |
| Acceptance Responsible |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Quality Expectations | Download speed | Priority |  |
| Acceptance Method | Minimize HTTP requests, reduce server response time, optimize images | | |
| Tolerance |  | | |
| Acceptance Responsible |  | | |

# Quality control

Test cases will be defined and developed. For each Test Case will be established a passing criteria and an exit criterion. At the end of each release cycle a report of passed and failed Test Cases will be reported and presented to the management team to take next decisions.

# Quality assurance

We will designate one person per quality expectation to be responsible to assure it to meet the standards.

# Tools and techniques

For the Production version of the product performance and security tools specific for Web Applications will be used. At this date Testing Team is analyzing and establishing the tools portfolio, thus Management Team will agree which tools will be used.

* We will use [Cargo](https://codehaus-cargo.github.io/cargo/Home.html) and [Maven Failsafe](https://maven.apache.org/surefire/maven-failsafe-plugin/) for integration testing.
* We will use Test Cases for Functional testing
* We will use Unit Tests for critical parts

1. Records

Not established at this moment.

1. Reporting

The Reporting will contain ratio between passed and failed Test Cases during each iterations.

The final version of the Report will include the Performance and Security report to assure a big view of the product quality to the Project Board.

# Timing of quality management activities

Each user story in a sprint have two Test Cases assigned to it. The deliverables will be tested according to them before the Sprint Review to assure they fulfil their functionality.

Integration Testing will occur each deployment.

# Roles and responsibilities

The main role in Quality Management is allocated to the Project Manager and the Testing Leader.