**Moldovan Balázs**
**30432**

**TracKtiv**

**Version 1.0**

**Revision History**

| Date | Version | Description | Author |
|---|---|---|---|
| 13/MAR/2019 | 1.0 | Initial Requirement Statement | Moldovan Balázs |
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## Table of Contents

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## Supplementary Specification

### 1. Introduction

The Supplementary Specification captures the system requirements that are not readily captured in the use cases of the use-case model. Such requirements include:

- ☐ Legal and regulatory requirements, including application standards.
- ☐ Quality attributes of the system to be built, including usability, reliability, performance, and supportability requirements.
- ☐ Other requirements such as operating systems and environments, compatibility requirements, and design constraints.

### 2. Non-functional Requirements

#### 2.1 Availability

The system is not expected to be used in urgent scenarios so a SLA (Service Level Agreement) of 99.5% can be seen as affordable. This meaning roughly a 1 day and 20 hours downtime in worst case, or 3 hours 40 minutes monthly. This time is used for performing software updates, data compression or garbage collection.

#### 2.2 Performance

Performance is not a key factor for the system. this meaning that a 30 seconds response time for request submission is allowable in worst case scenarios. In average cases the time depending on the load of the system should be 1 second.

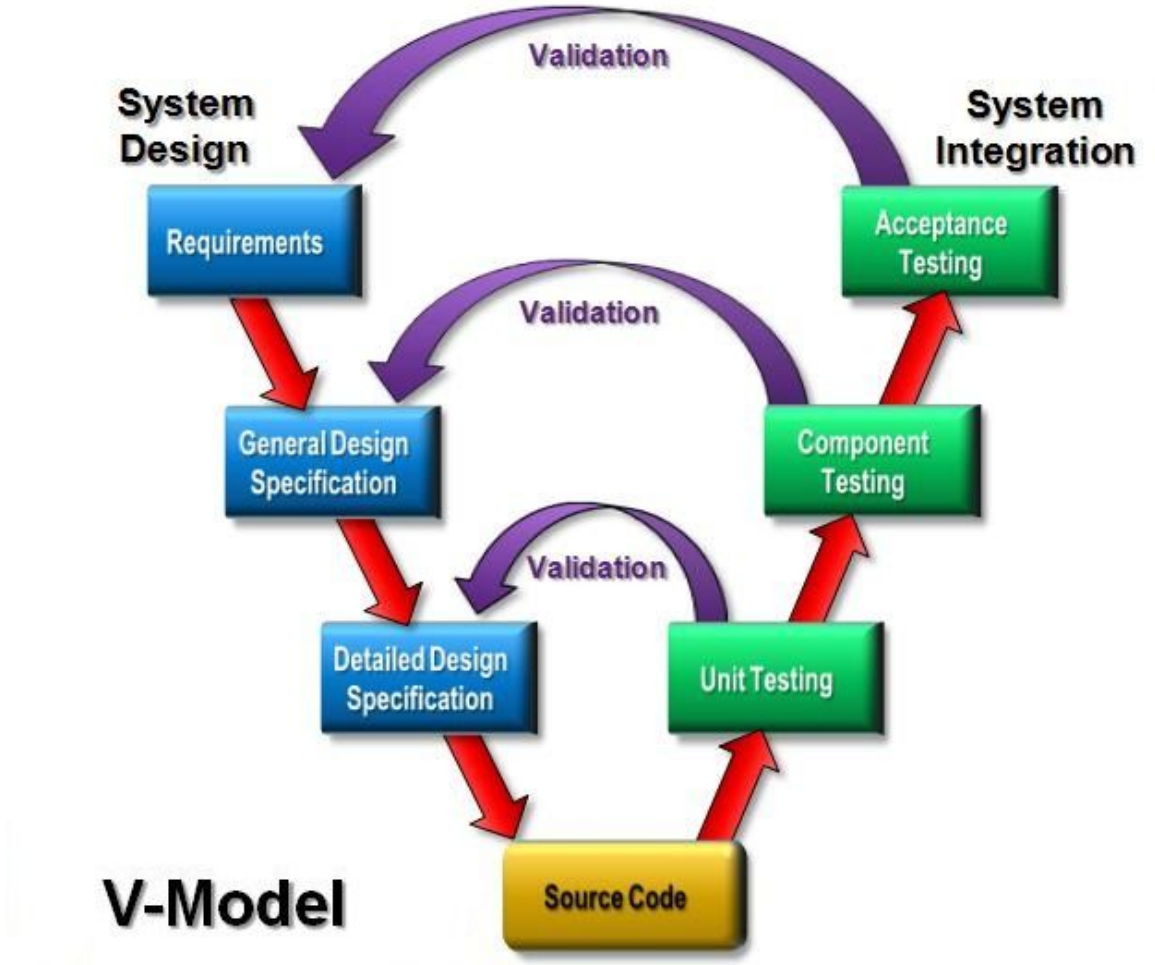
#### 2.3 Security

The system will be secured using https encrypted connections. User authentication is demanded and confidential data such as password will not be stored as plain text. Not sensible information does not need encryption.

#### 2.4 Testability

The business logic layer of the application must be tested independently from user interface.

V-model is employed for testing, aiming to have over 90% coverage through unit and integration test. With respect to manual testing, the system will log all information that is not displayed in the user interface, meaning a fully observable and testable system.




### 2.5 Usability

The user should be able to reach any desired goal in under 30 mouse clicks.

System administrators terminal operation will prompt to a confirmation dialog that describes the consequences of the action.

## 3. Design Constraints

The system is constrained to use Java 8 as implementation language. The software development process will be the Rational Unified Process (RUP), tailored to fit the team and the project. The conceptual architecture of the system will be a client server visible in the Conceptual Architecture. The required development tools are either Eclipse IDE or IntelliJ IDEA. In terms of libraries we will use: JavaFX, Hibernate, JDBC and GSON.

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