InfoTraffic Application

Supplementary Specification

Version 1.0

Revision History

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# Introduction

The Supplementary Specification describes the requirements which the application has to fulfill, which are not described in the use-case model. These requirements can be:

* The Non-Functional requirements of the application, regarding Availability, Performance, Security, Testability and Usability requirements.
* The operating system(s) on which the application runs, its compatibility requirements and design constraints.

# Non-functional Requirements

## Availability

The application should be available mostly all the time, but maintenance downtimes can occur, thus we can say that the availability of the application is 99%.

## Performance

The system should have a very low impact on the device’s performance, and the submitted data should be shown to other users in as little as 5 seconds.

## Security

Each user should have its own account based on a username and secured by a hashed password.

## Testability

The application should have be well designed, having a clear structure and having its components rely on each other as little as possible, thus creating a more testable system.

## Usability

The application is targeted towards drivers who have their mobile phone at hand, thus the UI should be very simple with larger than average icons and text for the driver to be able to see the notifications quickly without being distracted from the road.

# Design Constraints

1. OS

The application is designed to be run on devices running Android.

1. Programming language

The application is planned to be written in Java 8, thus having access to the latest features.

# Hardware Requirements

The application should run on most devices running Android OS, though the older models might have some issue with it.