

# Test documentation - Group 16

## 1 Introduction

### 1.1 Purpose of application

The sole purpose of the application is entertainment.

### 1.2 General characteristics of application

Avoidance is an android application in the form of a game, where the player is supposed to avoid enemies for as long as possible.

## 2 Test enviroment

To test the application on an android device you can download the apk from the latest release on github directly on you device and then install it.

You can also test the application by building it in eclipse and if your device is connected to your computer and the drivers are set up correctly it will automatically run on your device.

### 2.1 Hardware enviroment

The application is tested on Samsung Galaxy Nexus, Sony Ericsson Xperia Neo, ZTE Skate.

The unit tests are tested on a Windows desktop computer.

### 2.2 Software environment

The application is tested on Android 4.1, 4.0 and 2.3.

The unit tests is tested in eclipse Helios, Indigo and Juno.

### 2.2.3 Software settings

The unit tests is tested by running the tests as JUnit tests in Android JUnit Test Launcher.

## 3 System information

### 3.1 System version

Avoidance 1.0

## 4 Known bugs and limitations

See the attached "*BugsAndLimititations.pdf*"-document.

## 5 Test specification

See the attached "*AcceptanceTests.pdf*"-document.

## 6 Automatic test

## **6.1 Code coverage**

We had plans on using Emma with Eclipse, but as we didn't get it to work we skipped it. In the beginning we aimed for 90 % code coverage, but we decided to skip testing android code as well (see 6.2 *Unit test*).

## **6.2 Unit test**

We use JUnit 4 for unit testing.

We chose to use normal JUnit tests instead of creating a test project and use androids testing environment. Normal JUnit tests did not work with classes that used android code so we separated the android code from the rest of the code. We were therefore not able to test any android code but our android code mostly handles rendering and input which isn't suitable for unit testing anyway.

## **7 Test report**

See the attached "*test\_report.pdf*".