University of Pretoria
Software Engineering - COS 301

Testing Policy

Team Singularity
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Contents

1 Definition of Testing

We as a team see testing as a way to ensure that the software meets the requirements of the client and the COS 301 lecturers.

It is also an efficient and effective way of making sure you do not modify the system and stray away from the requirements. It ensures that all members know what the goal is when coding.

2 Description of the testing process

The testing process involves 3 levels of testing namely Unit-, Integration- and System-testing. Testing will follow a bottom-up methodology approach.

Karma and Jasmin will be used for unit tests on Angular.js projects. Unittest is a library that will be used to do unit tests on python. All of these tests are run on Travis CI on every commit.

Every new feature will undergo regression testing once implemented.

3 Testing evaluation

Tests should be written before any development starts and it should be based on the requirements of the system. It should happen one iteration before development and members should understand what the tests entail. This will ensure that members develop the system to work with the tests and not make the tests work with the system.

4 Testing improvements

Testing will be evaluated every week when the team meets up. Just to ensure the development is in-line with the tests. Bi-weekly meetings with clients will also be used to determine whether the tests follow the requirements and to change as needed base on our iterative design process.