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# **Storm Cloud Development**

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## **Project CM Master Test Plan**

**Version 1.0**

Project CM	Version: 1.0
Master Test Plan	Date: 23/Apr/2014

## Revision History

Date	Version	Description	Author
23/Apr/2014	1.0	Initial creation	Storm Cloud Development

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# Master Test Plan

## 1. Introduction

### 1.1 Purpose

The purpose of the Iteration Test Plan is to gather all of the information necessary to plan and control the test effort for a given iteration. It describes the approach to testing the software, and is the top-level plan generated and used by managers to direct the test effort.

This *Test Plan* for the Project CM supports the following objectives:

- Automated server tests
- Manual client tests
- Strategy for testing
- Resources used for testing and effort needed for testing

### 1.2 Scope

- Functional testing
- Unit testing

### 1.3 Intended Audience

- Project lead
- Project member

### 1.4 Document Terminology and Acronyms

n/a

### 1.5 References

n/a

### 1.6 Document Structure

This master test plan describes first the mission and motivation to test. Afterwards the test targets are listed and the different test approaches are described. In the end the entry and exit criteria of this test plan is shown.

## 2. Evaluation Mission and Test Motivation

### 2.1 Background

Every time it comes to programming, there are mistakes made by the programmer. Most of them might be small errors with no big influence, but also big problems that cause system crashes or data loss are possible. To prevent these big bugs, it is necessary to test the system.

### 2.2 Evaluation Mission

- Find as many bugs as possible
- Verify the requirements

### 2.3 Test Motivators

- Minimize quality risk
- Fulfill requirements
- Use cases

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### 3. Target Test Items

The listing below identifies those test items – software, hardware, and supporting product elements – that have been identified as targets for testing. This list represents what items will be tested.

- Compatibility to Firefox and Chrome
- Coding
- Functionality
- Fulfilling of use cases / requirements

### 4. Outline of Planned Tests

n/a

### 5. Test Approach

This section describes the different test approaches used for Project CM.

#### 5.1 Initial Test-Idea Catalogs and Other Reference Sources

n/a

#### 5.2 Testing Techniques and Types

##### 5.2.1 Functional Testing

<i>Technique Objective:</i>	Ensuring the fulfilling of the requirements
<i>Technique:</i>	Behavior driven testing
<i>Oracles:</i>	Test log
<i>Required Tools:</i>	Cucumber
<i>Success Criteria:</i>	All tests are executed without failures
<i>Special Considerations:</i>	The tests must be implemented based on the specifications of the test interface.

##### 5.2.2 Unit testing

<i>Technique Objective:</i>	Test the smallest unit of the program regarding to bugs and its correct functionality.
<i>Technique:</i>	Test single functions
<i>Oracles:</i>	Assertions of the PyUnit and the test log
<i>Required Tools:</i>	PyUnit
<i>Success Criteria:</i>	All tests execute without failures
<i>Special Considerations:</i>	The tests must be implemented based on the specifications of the test interface.

### 6. Entry and Exit Criteria

#### 6.1 Test Plan

##### 6.1.1 Test Plan Entry Criteria

The tests can start when the first method is coded.

##### 6.1.2 Test Plan Exit Criteria

The test plan is finished when all tests are executed without failure.

#### 6.2 Test Cycles

The tests should be repeated until the coding has finished and all tests are executed without failures.

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## **7. Deliverables**

n/a

## **8. Testing Workflow**

n/a

## **9. Environmental Needs**

n/a

## **10. Responsibilities, Staffing, and Training Needs**

n/a

## **11. Iteration Milestones**

n/a

## **12. Risks, Dependencies, Assumptions, and Constraints**

n/a

## **13. Management Process and Procedures**

n/a