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**Grape**

**Test Plan**

**Version 2.0**

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2015-05

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**Document Language**:

English

**Revision History**

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| 2015.5.24 | 1.0 | Initialization of the report | Hunter Lin |
| Final Date | 2.0 | Integrating all of the works | Hunter Lin |

**Key Word**

**Abstract**

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Note:

黑色字部分为大家都需要写的。（大部分为功能测试的内容）

根据大家之前画use case时的分工，来写相应的system functional test.

黄色部分: Hunter Lin

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**1. Introduction**

## 1.1. Purpose

## 1.2. Background

## 1.3. Definition

## 1.4. Reference

**2. Test Plan**

## 2.1. Project Review

|  |  |  |
| --- | --- | --- |
| Function | Input | Output |
| Create group | groupName,topic,confirmMessage | a corresponding group in the database |
| delete group | group\_id | a group deleted in the database |
| search group | group\_id | the information of the group |
| join group | group\_id | an association between the group and the current user is created in the database; |
| quit group | group\_id | an association between the group and the current user is deleted in the database; |

## 2.2. Test Cases

## 2.3. Unit Test

### 2.3.1. Test Schedule

### 2.3.2. Conditions

### 2.3.3. Test References

### 2.3.4. Test Training

## 2.4. Integration Test

All members in our team will participate in this test. Several units will be integrated as a part and be tested respectively.

### 2.4.1. Test Schedule

This test will be executed from 5.29 to 6.3.The work is to write stub module, driven module, test script, design test cases, and do the tests.

### 2.4.2. Conditions

1. 5 computers,5 days to be used.
2. All members of the our team will participate in this test. We must know how to do black box test.

### 2.4.3. Test References

1. Grape requirement document.
2. The whole code including (XXXX要填充).
3. Integration test environment and the causation graph are the same with the unit test.

### 2.4.4. Test Training

Null

## 2.5. System Functional Test

### 2.5.1. Test Schedule

### 2.5.2. Conditions

### 2.5.3. Test References

### 2.5.4. Test Training

## 2.6. Runtime Test

### 2.6.1. Test Schedule

### 2.6.2. Conditions

### 2.6.3. Test References

### 2.6.4. Test Training

## 2.7. Stress Test

### 2.7.1. Test Schedule

### 2.7.2. Conditions

### 2.7.3. Test References

### 2.7.4. Test Training

**3. Test Design Specification**

## 3.1. Unit Test

### 3.1.1. Control Method

### 3.1.2. Test Case

// note: this part is the combination of 3.1.1(input) & 3.1.2(output) in the demo doc. I think it’s better to integrate them and create a table to illustrate. Like this:

|  |  |  |
| --- | --- | --- |
| Test case number | Input | Output |
| 1 |  |  |
| 2 |  |  |

### 3.1.3. Process

## 3.2. Integration Test

According to system business tier , present tier ,and subsystem , integrate related units to test the integration version. Use black box testing to check the function and action of integration version. The whole process employs bottom – top integration. Testers must write proper stub module , driven module, and test script.

### 3.2.1. Control Method

Every integration component is tested manually by testers. Since in our developing process the developers are just the testers, they can fix bugs right now once they find a bug.

### 3.2.2. Test Case

|  |  |  |
| --- | --- | --- |
| Test case number | Input | Output |
| 1 | Operations about group in the webpage | Corresponding respond in the front-end and the database |
| 2 | Operations about discussion in the webpage | Corresponding respond in the front-end and the database |
| 3 | Operations about vote in the webpage | Corresponding respond in the front-end and the database |
| 4 | Operations about user himself in the webpage | Corresponding respond in the front-end and the database |

### 3.2.3. Process

1. Design test cases.
2. Write stub module, driven module and test script. Create a database for test.
3. Run server, Execute code, and compare result with expected.
4. Fix bugs found, and continue testing till there are no bugs.
5. When no bug is found, the test is over.

## 3.3. System Functional Test

// note: there might be several cases in expansion. Add them by yourself.

### 3.3.1. Control Method

### 3.3.2. Test Case

### 3.3.3. Process

**3.4. Runtime Test**

### 3.4.1. Control Method

### 3.4.2. Test Case

### 3.4.3. Process

## 3.5. Stress Test

### 3.5.1. Control Method

### 3.5.2. Test Case

### 3.5.3. Process

**4. Criteria**

## 4.1. Scope

### 4.1.1. Deflect verified rate criteria

### 4.1.2. Coverage Rate Criteria

## 4.2. Data Catalog

## 4.3. Scale

### 4.3.1. Test Ceasing Criteria

### 4.3.2. Unit Test Ceasing Criteria

### 4.3.3. Integration Test Ceasing Criteria

1. Integration test cases have accessed.
2. According to integration test cases, testers have finished all the tests of integration.
3. Reach the coverage rate criteria of integration testing.
4. Make sure that more than 2 errors should be found every KLOC of integration versions.
5. Integration version function and capability must be consistent with definition.
6. All the defects have been verified, and the verified rate has reached the criteria.

### 4.3.4. System Test Ceasing Criteria

**5. Conclusion**