

January 1

TEST

PLAN 2021

This document contains the future testing activities to be done like number of resources required, test environment, types of testing to be done, defect tracking procedure etc.

Page **2** of **11**



**Document History**

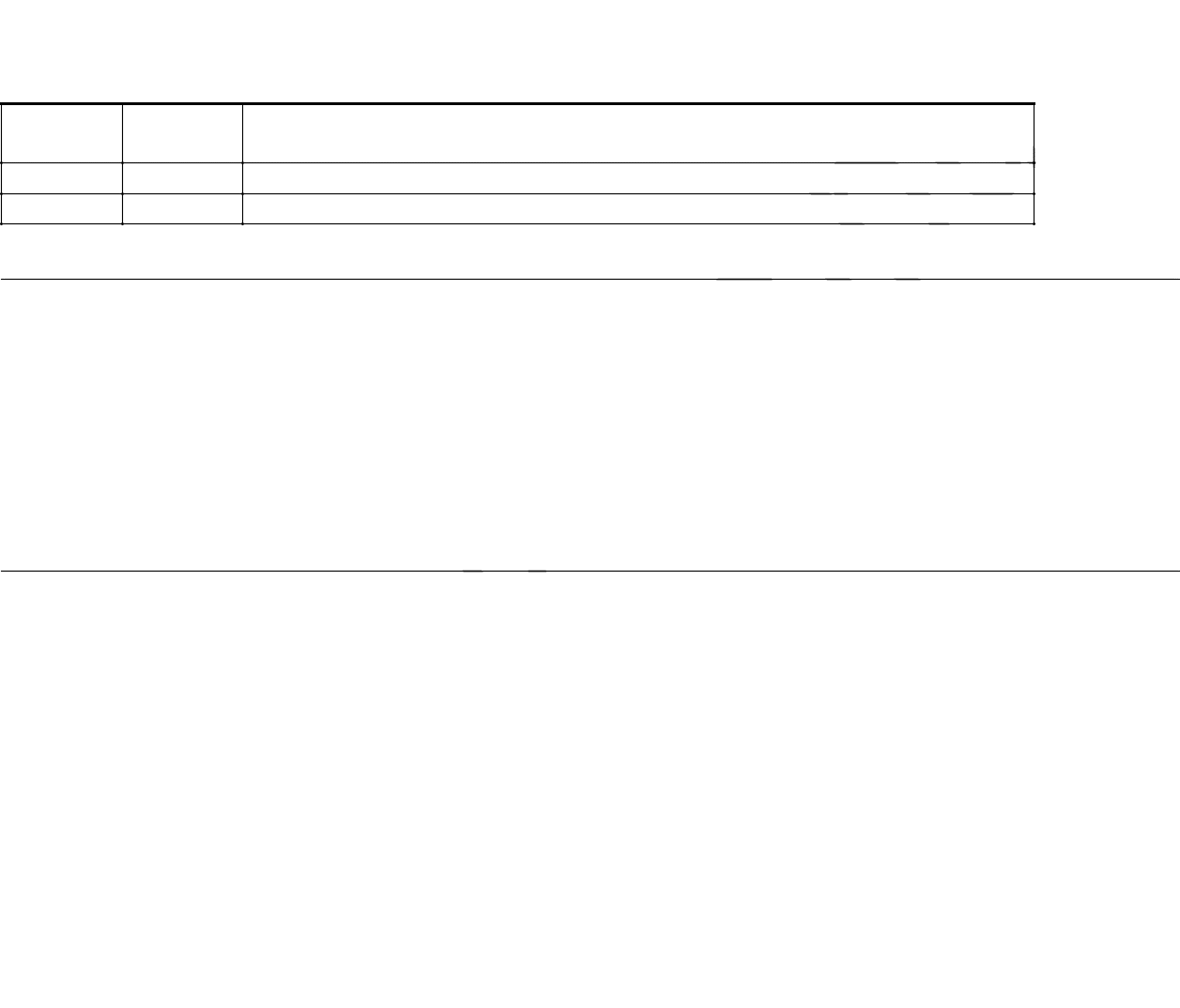


**Document Location**

This Document is maintained in Clear Case documentation Database.



**Revision History**



|  |  |
| --- | --- |
| Date of this revision: | Date of next revision *NA* |

Revision Revision Summary of Changes

Number Date

**Approvals**

This document requires following approvals.

|  |  |
| --- | --- |
| **Name** | **Title** |
| *Pankaj* | *Test Manager* |
|  |  |
| *Harsha* | *Project Manager* |
|  |  |

**Distribution**

This document has been distributed to

|  |  |
| --- | --- |
| **Name** | **Title** |
| *Pankaj* | *Test Manager* |
|  |  |
| *Pankaj* | *Project Manager* |
|  |  |
| *Pankaj* | *Architect* |
|  |  |
| *Pankaj* | *Developer* |
|  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Page **3** of **11** |  |
| **Contents** | | |  |
| [**1.**](#page4) | [**Brief Description** ...................................................................................................................................](#page4) | | [4](#page4) |
| [**2.**](#page4) | [**Test Objective:** ......................................................................................................................................](#page4) | | [4](#page4) |
| [**3.**](#page4) | [**Test Scope** .............................................................................................................................................](#page4) | | [4](#page4) |
|  | [3.1](#page4) | [List of features to be tested : ........................................................................................................](#page4) | [4](#page4) |
|  | [3.2](#page5) | [List of features not to be tested: ..................................................................................................](#page5) | [5](#page5) |
|  | [The features mentioned below are the external applications integrated with GMAIL. Here the scope of](#page5) | | |
|  | [testing is to just check how well the application is integrated with GMAIL. We will not test these](#page5) | |  |
|  | [applications as it will not be within the scope of testing..........................................................................](#page5) | | [5](#page5) |
| [**4.**](#page5) | [**Approach** ..............................................................................................................................................](#page5) | | [5](#page5) |
| [**5.**](#page6) | [**Assumption:** ..........................................................................................................................................](#page6) | | [6](#page6) |
| [**6.**](#page6) | [**Risk**](#page6) | [........................................................................................................................................................](#page6) | [6](#page6) |
| [**7.**](#page6) | [**Mitigation Plan/Back Up plan/Contingency Plan** ...............................................................................](#page6) | | [6](#page6) |
| [**8.**](#page6) | [**Types Of Testing** ...................................................................................................................................](#page6) | | [6](#page6) |
| [**9.**](#page7) | [**Roles and Responsibilities** ....................................................................................................................](#page7) | | [7](#page7) |



Page **4** of **11**

**1. Brief Description**

GMAIL is a web based application with heaps of storage capacity given to the user.

Using GMAIL user will we able to send an email, receive an email, forward an email etc.

The complete requirement document of the application is available in clear case.

**2. Test Objective:**

The main objective of the test is to make sure the application works according to the business requirements, find as many defects as possible and communicate the same to the developers and ensure that at the end of test life cycle a quality application is delivered to the client.



**3. Test Scope**

This defines the boundaries of testing of GMAIL application

3.1 List of features to be tested :

|  |  |
| --- | --- |
| **Features** | **Description** |
| Compose | User can compose any new emails and |
|  | can send it along with the attachments |
|  |  |
| Inbox | Any new email received should be |
|  | available in inbox. |
| Sent Items | Should contain the list of emails sent |
|  | by the user |
| Draft | End User compose an email and then |
|  | save that in the draft, which can be |
|  | reused latter |
| Trash | Deleted emails should be available in |
|  | trash |
| Buzz | **Buzz** is a [social networking,](http://en.wikipedia.org/wiki/Social_network_service) [micro](http://en.wikipedia.org/wiki/Microblogging) |
|  | [blogging](http://en.wikipedia.org/wiki/Microblogging) and messaging tool that was |
|  | developed by [Google](http://en.wikipedia.org/wiki/Google) and integrated |
|  | into their [web-based](http://en.wikipedia.org/wiki/Webmail) |
|  | [email](http://en.wikipedia.org/wiki/Webmail) program, [Gmail.](http://en.wikipedia.org/wiki/Gmail) |
| Important | **Gmail** has automatically started |
|  | labeling messages **important,** |
|  | indicating how important the |
|  | incoming message |
| Starred | This feature will provide a user a |
|  | flexibility to use them as a visual |
|  | reminder that you need to follow-up |
|  | on a message or conversation |
|  |  |
| Spam | SPAM diverts messages that are |
|  | suspected of being unwanted |

Page **5** of **11**

messages into **SPAM and keeping**

**that out from your inbox**

3.2 List of features not to be tested:

The features mentioned below are the external applications integrated with GMAIL. Here the scope of testing is to just check how well the application is integrated with GMAIL. We will not test these applications as it will not be within the scope of testing.



|  |  |
| --- | --- |
| **Features** | **Description** |
| Orkut | External application |
| Picasa | External application |
| Google Docs | External application |
| Google+ | External application |
| Groups | External application |
| You tube | External application |
| Blogs | External application |

**4. Approach**

**There will be two teams – onsite team and India team. Daily work assignment would be sent to the respective test leads through email by the test manager. Test leads are then responsible to assign the work to their respective team members. Once the work is completed the respective test engineers should then send the status email containing the progress of the work by end of the day to the test lead and test manager. On daily basis, STCM should be updated by respective team member, which will be maintained in the SharePoint under 2012 releases folder.**

**Once the development team has finished developing the product, they will give the demo to both the onsite and India team about the new features added.**

**Every day 7:30PM IST, there will be triage call. In the triage call the development, testing and business team will be discussing about the defects found.**

Page **6** of **11**

**Every time we get a new build, Team has to start with smoke testing followed by other types of testing specified under *types of testing*.**

**5. Assumption:**

**Some of the assumptions in this project from testing perspective are as follows:**



* 1. **Total number of human resources would be four throughout the project(Excluding the Test Lead)**
  2. **A "full-time" resource will work for at least 40 hours/week**
  3. **Any code changes or fixes done which needs to be moved to test environment while the testing is in progress should be communicated to the test team.**
  4. **Test Environment: The Test URLS, user ids and databases are available and documented before starting smoke testing**

1. **Risk**

**Some of the risk identified in the project is as follows:**

* 1. **Staff is on Vacation or has left the organization**
  2. **Lack of application knowledge.**
  3. **Application unavailability highly impacts the test schedule**
  4. **Development risks highly impacts the testing schedule.**
  5. **Problem caused by hardware or system software such as:**
     1. **System crash**
     2. **Configuration**

1. **Mitigation Plan/Back Up plan/Contingency Plan**
   1. **Trainees would be appointed as back up staff**
   2. **Regular trainings on the domain and application will be organized.**

1. **Types Of Testing**
   1. **Smoke Test**
   2. **Functional Testing**
   3. **Integration Testing**
   4. **System Testing**
   5. **Adhoc Testing**
   6. **Compatibility Testing**

Page **7** of **11**

1. **Exploratory Testing**
2. **Globalization Testing**
3. **Performance Testing**
4. **Usability Testing**



**9. Roles and Responsibilities:**

**Test Manager:**

1. **Write or review test plan**
2. **Interact with customer, developer, testers and management.**
3. **Handle escalations**
4. **Test Estimations like number of resources required, time taken to complete the testing activity etc.**
5. **Sign of release note**

**Test Lead:**

1. **Write or review test plan**
2. **Assigning work to the test engineers**
3. **Approving leaves of test engineers**
4. **Prepare monthly status work report and send it to test manager.**
5. **Write test cases**
6. **Execute Test Cases**
7. **Review test cases**

**Test Engineer:**

1. **Write test plan**
2. **Write test cases**
3. **Execute test cases**
4. **Prepare traceability matrix**
5. **Update STCM daily**
6. **Execute and maintain automation script**
7. **Send individual daily work status emails to the test lead**

Page **8** of **11**

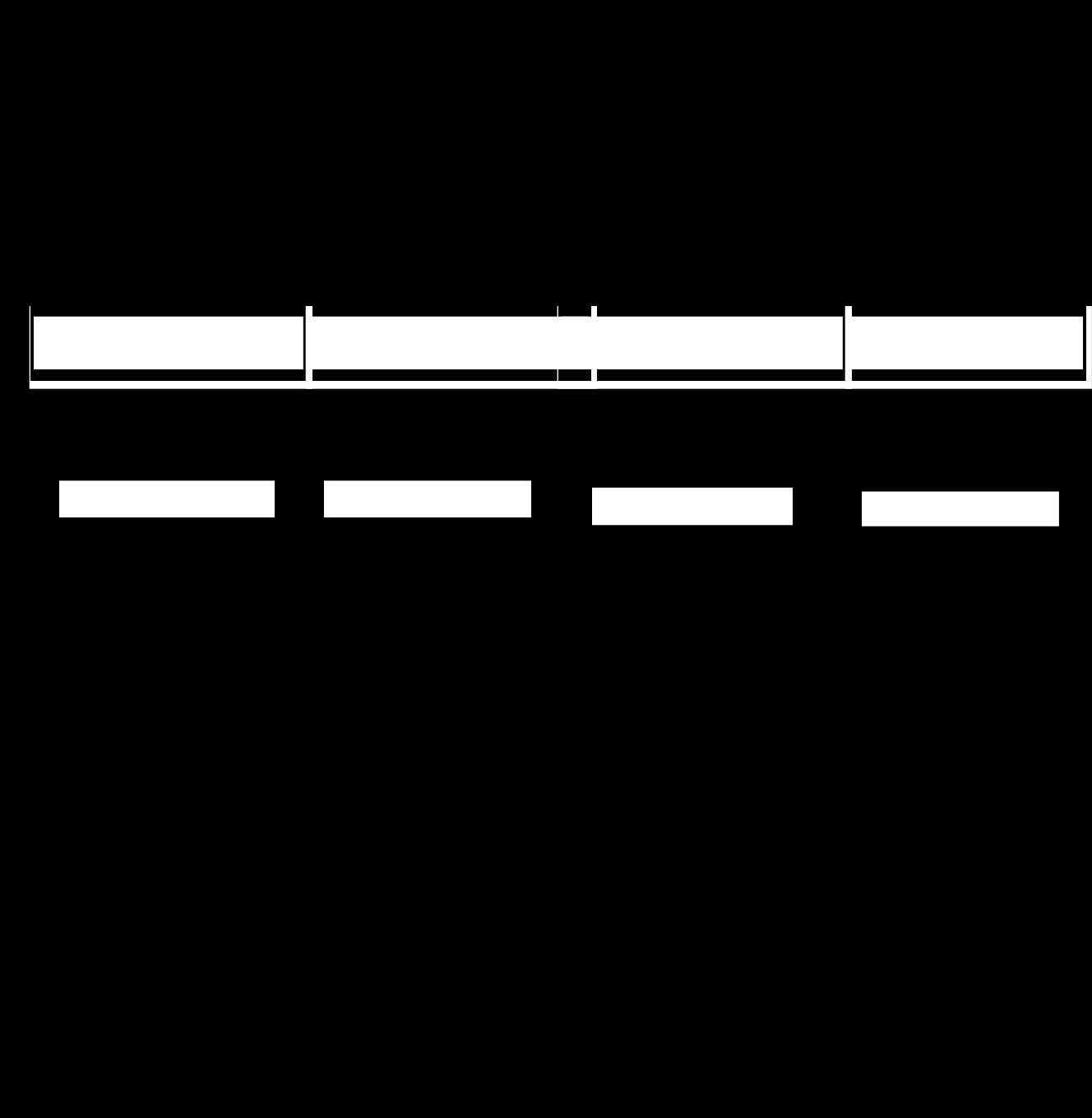
1. **Defect Tracking:**

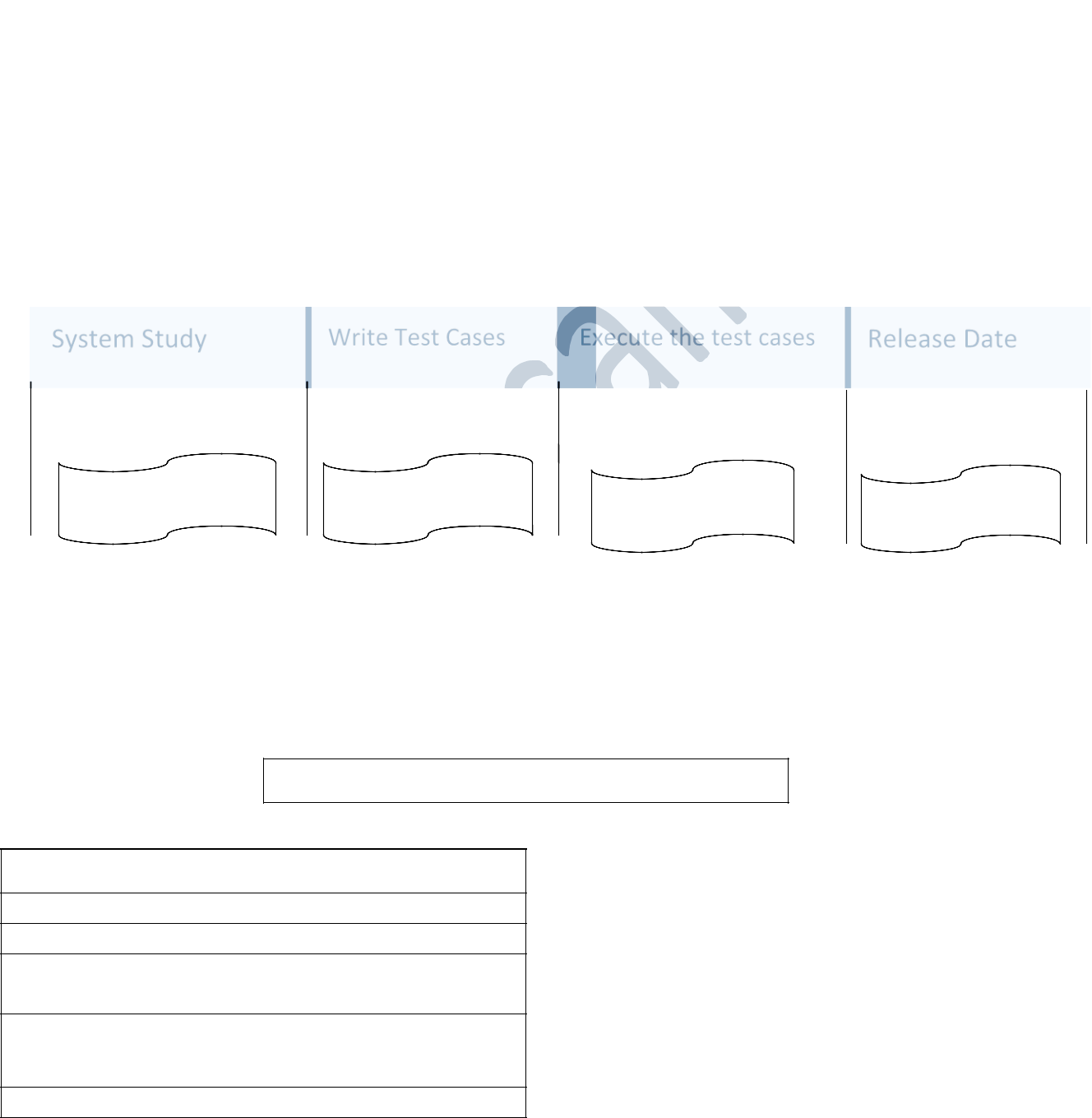
**10.1 Procedure to track the defect**

**10.2** **Severity: Blocker or show stopper, Critical, Major, Minor**

**10.3** **Priority: High, Medium, Low**

**10.4** **Which defect tracking tool to be used**





1. **Schedule:**

|  |  |  |  |
| --- | --- | --- | --- |
| System Study | Write Test Cases | Execute the test cases | Release Date |
|  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **12/Dec/2021** | **13/Jan/2022** | **17/Feb/2022** | **21/Mar/2022** |  |
|  |  | **21/Mar/2022** |  |

1. **Entry and Exit Criteria:**

**Functional Testing**

**Entry Criteria**

**White Box testing should be completed**

**Test Cases should be ready**

**Product should be available with the required**

**test environment**

**Resources should be available**

**Test data should be ready**

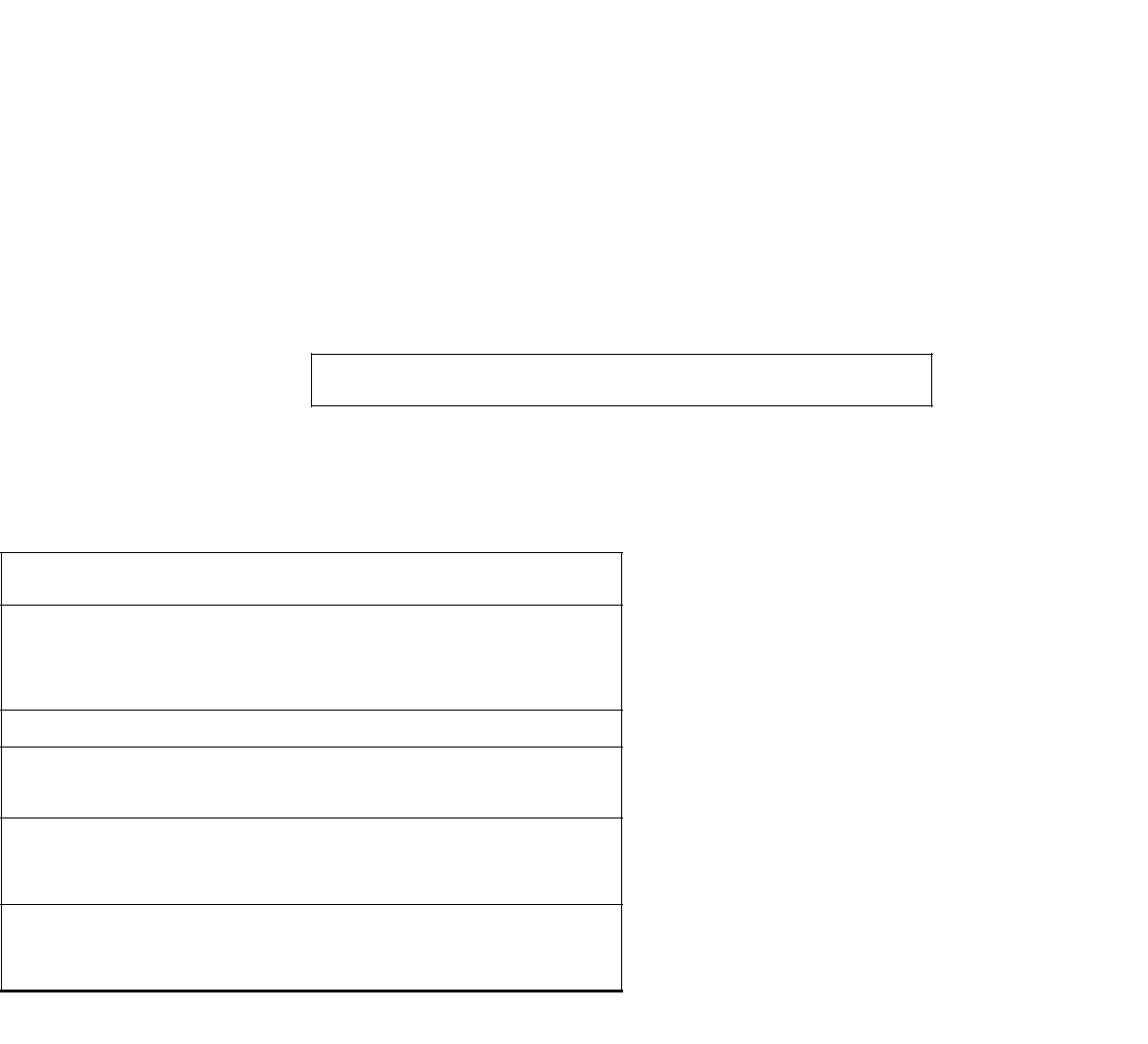
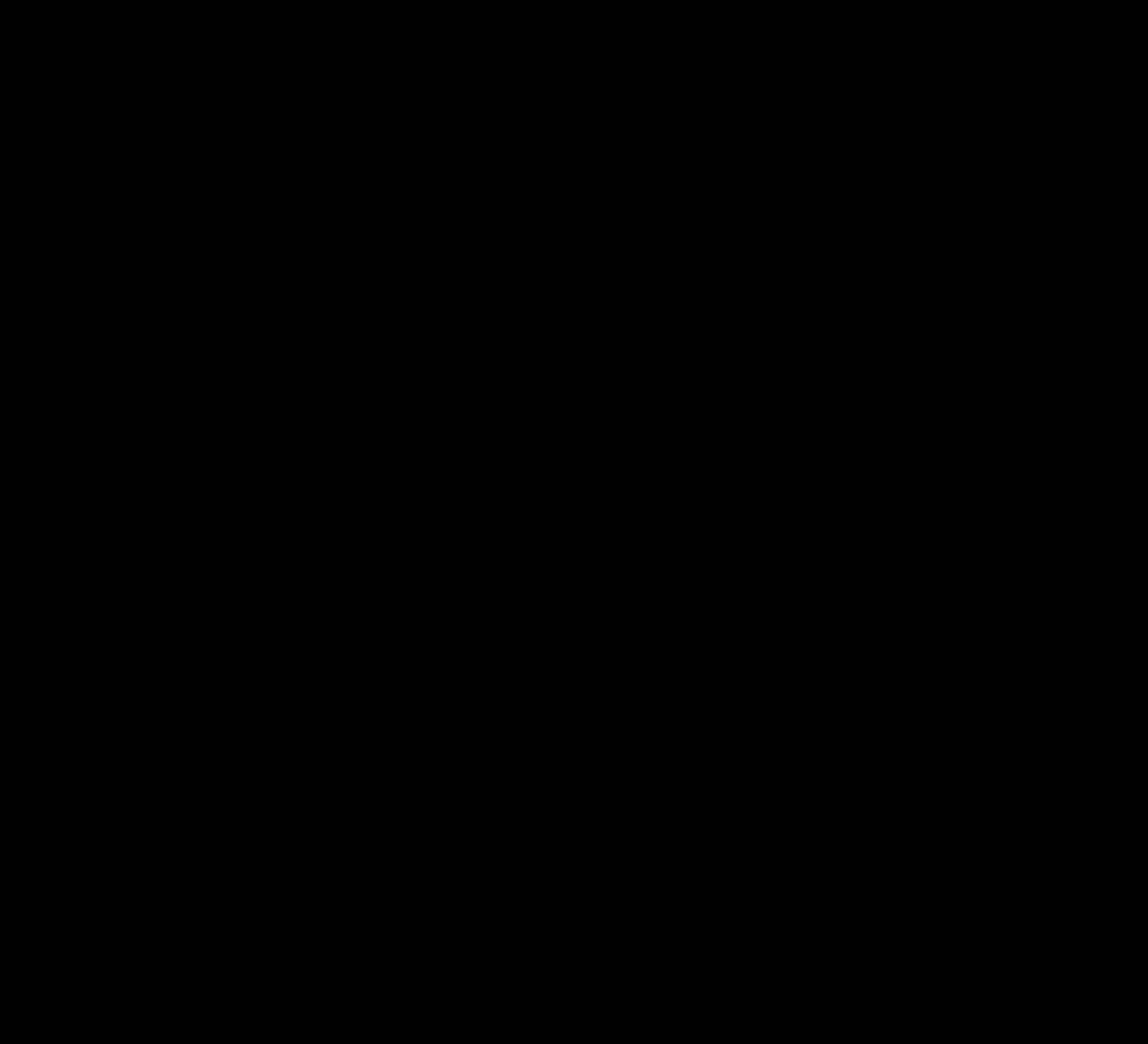
Page **9** of **11**

**Exit Criteria**

**Based on % of Test Cases executed**

**Based on % of Test Cases Pass**

**Based on % of severity defects found & fixed**



**Integration Testing**

**Entry Criteria**

**Exit criteria of functional testing should be met**

**and minimum features should be available to**

**perform integration testing**

**Test Cases should be ready**

**Product should be available with the required**

**test environment**

**Resources should be available**

**Test data should be ready**

**Exit Criteria**

**Based on % of Test Cases executed**

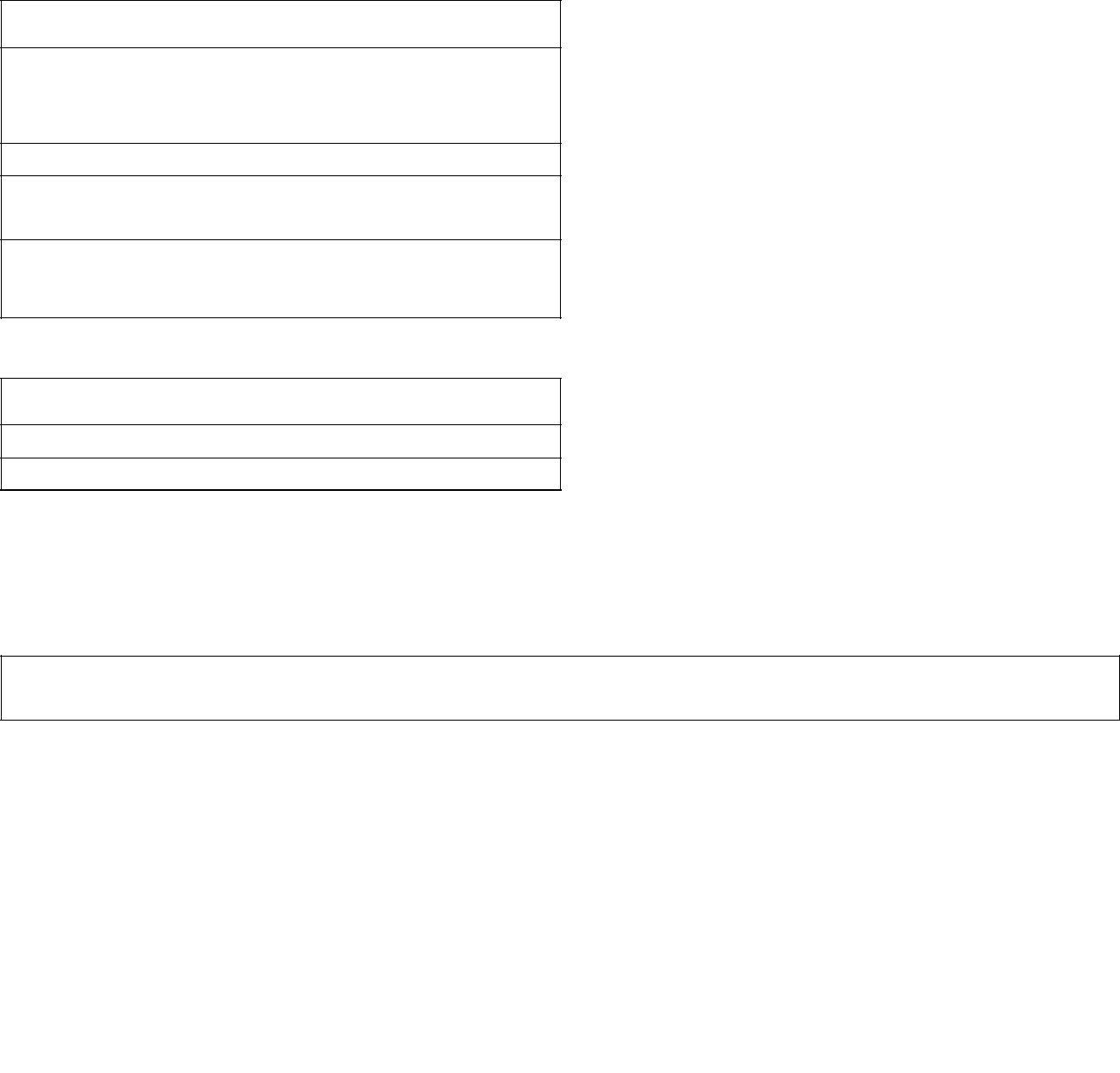
**Based on % of Test Cases Pass**

**Based on % of severity defects found & fixed**

Page **10** of **11**



**System Testing**



**Entry Criteria**

**Exit criteria of integration testing should be met**

**and minimum features should be available to**

**perform system testing**

**Test Cases should be ready**

**Product should be available with the required**

**test environment**

**Resources should be available**

**Exit Criteria**

**All of the Test Cases should be executed**

**There should be No critical & major defects**

1. **Test Environment:**
2. Will explain about types of hardware and software’s required
3. Procedure to install the software

Example:

Hardware:

|  |  |  |
| --- | --- | --- |
| Server | Sun Starcat 1500 | |
| Client | 15 computers with following configurations: | |
|  | 1. | Processor: i3 |
|  | 2. | RAM: 4GB |
|  | 3. | Harddisk:500GB |
| Software: |  |  |
|  |  | |
| Server | Operating System: Suse Linux | |
|  | Web Server: Tom Cat | |
|  | Application Server: Web Sphere | |
|  | Database server: MySql Server | |
| Client | Operating System : Windows XP | |

Page **11** of **11**

Browsers: I7, Mozilla 3.5.13

Others: Adobe 10.1, beyond compare etc

1. **Template:**



|  |  |
| --- | --- |
| 14.1 | Test case template: |
| 14.2 | Review Template |
| 14.3 | Traceability Matrix |
| 14.4 | STCM template |

1. **Deliverable:**

|  |  |
| --- | --- |
| 15.1 | Test Plan: |
| 15.2 | Test Case |
| 15.3 | Traceability Matrix |
| 15.4 | STCM |
| 15.5 | Graphs and matrices |
| 15.6 | Release Note : Is always signed off by the Test Manager |
| 15.6.1 | Number of defects found and fixed |
| 15.6.2 | Platforms on which you tested the application |
| 15.6.3 | What new features was added in this release |
| 15.6.4 | Installation guide |
| 15.6.5 | User Manual/Demo CD |
| 15.6.6 | Version Number of the build |