**TPP/P3 Test Plan**

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# **1. Introduction:**

This Document is the high-level overview that defines our testing approach for the TPP/P3 Project. Its objective is to generate wide amount of data in the form of reports that checks the sales data from data warehouse. This gives a clear picture of the project that will help us in the testing phase of the project. The document tells us what all techniques will be applied for the project in the testing process. The most important and crucial part of any development life cycle can be explained below.

# **2. Objectives:**

## 1.1 Purpose

This document describes the plan for testing the architecture of TPP/P3. Here the main objective will be to find and report as many bugs as possible to improve the integrity of our program.

This Test Plan document supports the following objectives:

* Provides visible confirmation to the customers as well as end users that the software works as expected (or as design) point of view.
* Provide confirmation that software causes no harm while using.

This Master Test Plan also supports the following specific objectives:

* Identifies items that should be targeted by the tests.
* Identify which particular test(s) will be used to test each modules.
* Identifies the motivation for and ideas behind the test areas to be covered.
* Outlines the testing approach that will be used.
* Identifies the required resources and provides an estimate of the test efforts.
* Lists the deliverable elements of the test project.
* Document the test case configuration, test data, and expected results.
* Test documents and reports shall be submitted. Any specifications to be reviewed, revised, or updated shall be handled immediately.
* Review the test data and test cases to ensure that the unit has been thoroughly verified and that the test data and test cases are adequate to verify proper operation of the unit.
* Exhaustive testing is not possible.

## 1.2 Scope

This Test Plan will cover the following testing activities as identified in the testing strategy:

* Functional Testing
* GUI Testing
* Regression testing
* Retesting
* Database Testing
* Integration Test
* System Test

## 1.3 Project Context and Background working

* TPP/P3 is a project where SQL jobs are run on daily bases, the raw data that is stored in data ware house is fetched and processed to generate the successful report of the data.
* If the report gets generated properly we can browse the website to see the generated report.
* As the report is generated it will only be emailed to admin members only to verify.
* On front end site user can login, get registered, various groups can be made.
* Current month Status report, pervious month status report, P3 report such reports can be seen.

# **3. Test items:**

## 3.1 Functional Test

**3.1.1 Overview**

The functional test is performed during construction phase by application developers. The functional testing is the initial testing of new and/or changed code in the system.

Testing the modules such as Login page, registration, user groups, user management etc.

**Test assumptions:**

All the pre-requisite data, like, URL, Credentials, records, reports, validations etc.

**3.1.2 Items Tested**

Login page is working properly with valid and invalid credentials. Test Registration page to be tested with all the proper valid data and user gets registered properly. Verify each report generated gets correctly generated according data provided from data warehouse.

***3.1.3 Items Not Tested***

All items will be tested. To ensure previously existing functionality was not adversely impacted, regression testing will be performed to all previous releases.

## 3.2 GUI Test

**3.2.1 Overview**

The GUI testing includes the UI interface pf the various web pages that will be developed. All the alignment, font size etc. will be tested accordingly.

**3.2.2 Items Tested**

Login page, registration page all the various generated reports etc.

***3.2.3 Items Not Tested***

All items will be tested. To ensure previously existing functionality was not adversely impacted, regression testing will be performed to all previous releases.

## 3.3 DAtabase Test

**3.2.1 Overview**

Database testing involves the retrieved values from the database by the web or desktop application. Data in the User Interface should be matched as per the records that are stored in the database.

**3.2.2 Items Tested**

Database tables, columns, keys and indexes, stored procedures, triggers, database server validations, validating data duplication etc.

***3.2.3 Items Not Tested***

All items will be tested. To ensure previously existing functionality, records should not have an adverse impact, regression testing will be performed to all previous releases.

## 3.4 Regression Test

**3.4.1 Overview**

Regression testing is initiated when programmer fix any bug or add new code for new functionality to the system. There can be many dependencies in newly added and existing functionality. It is a quality measure to check that new code complies with old code and unmodified code is not getting affected.

**3.4.2 Items Tested**

Login page, registration page all the various generated reports etc.

***3.4.3 Items Not Tested***

All items will be tested. To ensure previously existing functionality was not adversely impacted, regression testing will be performed to all previous releases.

## 3.5 Re-Test

**3.5.1 Overview**

Re-testing is executing a previously failed test against new software to check if the problem is resolved. After a defect has been fixed, re-testing is performed to check the scenario under the same environmental conditions.

**3.5.2 Items Tested**

Login page, registration page all the various generated reports etc.

**3.5.3 Items Not Tested**

All items will be tested. To ensure previously existing functionality was not adversely impacted, regression testing will be performed to all previous releases.

## 3.6 Integration Test

**3.6.1 Overview**

Integration testing confirms that each piece of the application interacts as designed and that all functionality is working. Integration testing includes interactions between all layers of an application, including interfaces to other applications, as a complete end-to-end test of the functionality.

The development team will be responsible for the creation of the integration test scripts in accordance to the integration test plan. A developer will be chosen by the team who will be responsible for execution of the test scripts and certifying that the integration testing is complete.

**Test assumptions:**

All the pre-requisite data, like, URL, dependent modules Credentials etc.

**3.6.2 Items Tested**

Verify and List Use Case, module wise generated reports that are integrated properly or not.

**3.6.3 Items Not Tested**

All items will be tested. To ensure previously existing functionality was not adversely impacted, regression testing will be performed to all previous releases.

## 3.7 System Test

**3.7.1 Overview**

To test all possible scenarios. The System Test criteria apply for purposes of categorizing defects and the assessing the quality level of the product. All elements of the TPP/ P3 Module and Graphical User Interface are meshed together and tested as a whole. System test focuses on functions and performance, reliability, instillation, behavior during special conditions, and stress testing.

**Test assumptions:**

All the pre-requisite data, like, URL, Credentials, Test scenarios etc. Entire system in whole will be tested.

**3.7.2 Items Tested**

Generated reports from the Database, verify the admin section generated reports data to be send etc.

**3.7.3 Items Not Tested**

All items will be tested. To ensure previously existing functionality was not adversely impacted, regression testing will be performed to all previous releases.

# **5****Tools:**

The following tools will be employed for testing of the architectural prototype:

|  |  |  |
| --- | --- | --- |
|  | **Tool** | **Version** |
| QA Server and tools | Windows Server  Web server  Visual Studio  .Net Framework  Sql Server | 2012 R2 SP1  8.0  2012  Asp.Net 4.5  2014 with   * Integration Server * Reporting Services * Reporting Server |
| Test Management | MTM | 2012 ultimate |
| Defect Tracking | VSTS | 2012 ultimate |
| Functional Testing | Manual |  |
| DBMS | SQL | 2012 |

# **6. Platforms to test:**

The website is intend to run flawlessly in various platforms. Which includes,

**Browsers:**

- IE [9, 10, 11], Google chrome, Mozilla Firefox etc. (on various versions) or all popular / mostly used versions.

**Operating systems:**

- Windows 7 2012, 8 2012.

**Note**: - (Questions for future references)

For Windows 10 also we have to test?