Testing Strategy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PPM #** |  | **Project Name** | |  |
| **Author** |  | **Date** |  | |

**This document is designed to allow assigned analysts to define their testing strategy for medium to large sized projects.**

**Project Testing Strategy**

Summarize the general testing strategy for this project. Select the types of tests to be executed for this project. Double click the check box and select “Checked” as a Default value. Complete the corresponding section for each type selected**.**

|  |  |
| --- | --- |
| Pre-Modification Testing (Baseline)  Unit Testing (Developer)  Functional Test  Integration Testing  Process (End-to-End) Testing | User Acceptance Testing  Load Testing  Parallel Testing  Regression Testing  Post-Production Testing |

If you already have test scripts created, please provide a link to the Test Script Workbook.

[INSERT LINK HERE]

**Quality Assurance Challenges**

Identify any testing-related challenges unique to this project.

* [LIST CHALLENGES HERE]

**Project Data Impact**

Identify any anticipated tables or files with altered structures or modified data usage. Identify new tables or files which will be used by any other process. Research the data impact and provide the results of the analysis.

* [LIST DATA HERE]

**Pre-Modification Testing**

A set of benchmarking tests performed prior to development or migration. The results of this testing are typically retained and compared to the results of the post-modification tests.

**Identity Baseline Test Cases**

| **Business Process to be Tested** | **Do tests currently exist?** | **Test Execution Environment(s)** | **Test User IDs** |
| --- | --- | --- | --- |
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**Testing Roles Required**

Identify the roles you will need for testing and the corresponding test user IDs with those roles. This section may require input from the Quality Control and/or the Security Team.

| **List Roles Required for Testing** | **Corresponding Test User IDs** |
| --- | --- |
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|  |  |

**Define Strategy**

Define your strategy for this specific type of testing.

The pre-modification tests should typically occur in a QAT/Beta environment. If this is not appropriate for this project, please explain why in this section.

[DEFINE STRATEGY HERE]

**Identify Use Cases**

| **Business Process to be Tested** | **Do tests currently exist?** | **Test Execution Environment(s)** | **Test User IDs** |
| --- | --- | --- | --- |
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**Process Testing**

A set of tests used to validate that a particular process is working properly. The scope of this testing should be broad enough to include the entire logical functionality of an identifiable process, such as “Hire an Applicant” or “Create the Department Reports.”

**Define Strategy**

Define your strategy for this specific type of testing. The process tests should typically occur in a TST environment. If this is not appropriate for this project, please explain why in this section.

[DEFINE STRATEGY HERE]

**Identify Functional Test Cases**

| **Business Process to be Tested** | **Do tests currently exist?** | **Test Execution Environment(s)** | **Test User IDs** |
| --- | --- | --- | --- |
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**Integration Testing**

A comprehensive series of tests used to validate that modifications to a particular process have not negatively impacted the system or subsystem.

Depending on the scope of the modification and the capabilities of the testing environment used, integration tests may be contained within a single module (such as Asset Management or Student Fees) or extend across several modules or applications.

**Define Strategy**

Define your strategy for this specific type of testing.

The integration tests could occur in a TST or QAT environment. Explain the levels of integration and the appropriate environment to test each level in this section.

[DEFINE STRATEGY HERE]

**Identify Integration Test Cases**

| **Business Process to be Tested** | **Do tests currently exist?** | **Test Execution Environment(s)** | **Test User IDs** |
| --- | --- | --- | --- |
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**Load Testing**

For applications anticipated to attract a high volume of traffic, this type of testing demonstrates how well the application performs under the stress of extreme user demand. Simulating such high demand usually requires the use of automated tools and performance monitoring by Infrastructure.

[INSERT HYPERLINK TO LOAD TESTING DOCUMENTATION HERE]

**User Acceptance Testing**

Comprehensive testing executed by one or more application users to determine that: (1) the new functionality meets the desired requirements, and (2) the overall application has not been negatively impacted. UAT is coordinated by the Project Manager and typically conducted in the Beta environment prior to migration to production.

| **Business Process to be Tested** | **Do tests currently exist?** | **Test Execution Environment(s)** | **Test User IDs** |
| --- | --- | --- | --- |
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**Describe Strategy**

Define your strategy for this specific type of testing. The user acceptance tests should typically occur in a QAT/Beta environment. If Beta will not be used, please explain why.

[DEFINE STRATEGY HERE]

**Identify Test Cases**

| **Test Name** | **Test Execution Environment(s)** | **Test Case Parameters** | **Tester Name(s)** |
| --- | --- | --- | --- |
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**Parallel Testing**

The concurrent execution of a new or modified process or system in both the production and test environments. Typically, production data is copied into a test environment and the same transactions are processed in both environments so that the results can be compared.

**Describe Strategy**

Define your strategy, including data synchronization. Parallel tests should typically occur between PRD and a Beta environment. Describe the environment usage.

[DEFINE STRATEGY HERE]

**Identify Parallel Processing Test Cases**

| **Test Name** | **Test Execution Environment(s)** | **Test Case Parameters** | **Tester Name(s)** |
| --- | --- | --- | --- |
|  |  |  |  |
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**Post-Production Testing**

The final set of “smoke tests” used to validate that the modification works as expected in the production environment. This testing is conducted by the Project Manager or a designated campus user.

**Define Strategy**

Define your strategy for this specific type of testing.

[DEFINE STRATEGY HERE]

**Identify Post-Production Test Cases**

| **Test Name** | **Test Case Parameters** | **Test User Ids** | **Tester Name(s)** |
| --- | --- | --- | --- |
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**Testing Risks**

This section will document any risks identified by Testing Team which could impact the Test Execution, as well as their mitigation when appropriate. The following are areas that may be detailed in this section: Vacation/Holiday time, Illness, Network/Hardware/Software issues, Staffing access, Complexity of defects that could be discovered, Complexity of items being tested, Late Change Requests, Lack of training, Lack of understanding of items being tested, Documentation missing.

The following risks represent items which could impact the Analyst’s ability to successfully achieve our test plan targets.

| **Risk** | **Likelihood** | **Impact** | **Mitigation Strategy** |
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**Sign-Off**