System Test Specification

# TeamName

Student – 1

Student – 2

Student – 3

Student – 4

Date of Submission

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General Instructions

* This document must contain all the following sections and subsections.
* Maintain the form and format of the template - font, margins, paging, etc.
* This is a generic template and some sections will not apply to this course project. When this is the case, simply comment why a section is not applicable to this project. Do not simply leave out a section when it is deemed not applicable.
* Use bullets, figures, & tables as much as possible to make the presentation concise and readable.
* All diagrams, tables, & figures need to be numbered by section [i.e. Table 4.1] and have either a title or caption. Be consistent in the use of a title or caption.
* Ensure your terms are used consistently throughout the document. For example, don’t use task leader in one section and have the same role called team leader in another section.
* Do not use ambiguous terms such as user. Specify a particular role.

**Remove ALL**

1. **highlighted instructions and**
2. **instructions delimited by < > from your final deliverable.**

# 1. Test Plan

## 1.1. Testing Team Organization and Resource Assignments

State the members of the test team, their roles and responsibilities, and the estimated effort required of each team member, and for the team as a whole.

This needs to have a ***good level of detail*** to show the testing process has been thought through and the effort properly planned and allocated to team members.

|  |  |
| --- | --- |
| **Team Member** | **Roles and Responsibilities** |
|  |  |

***1.2. Testing Schedule***  
If a Working Application was assigned --State the testing and debugging schedule, including planned releases from the programmers to the testers for updated versions of the system, delivery deadlines, and milestones.

This needs to include ***team scheduling*** as well as the overall project deadlines.

Display the Schedule in a ***Gantt chart.*** Do not embed the chart rather provide an ***active link*** to the chart.

***1.3. Test Cases***  
List all test cases used in the testing effort. Typically **each requirement** should have its own test case, however multiple requirements can be put in the same test case but provisions must be made to indicate the success or failure of each individual requirement.

Test cases should be organized into black box and white box tests, and arranged to make clear how equivalence partitioning, boundary value analysis, coverage goals, and so forth, were used to generate the test cases.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID** | **Requirement Number** | **Test Goal** | **Test Method/Technique** |
| Any numbering system, i.e. one-up | Maps the requirements in the Traceability Matrix to specific test case(s). | Short description of the test goal(s) and objective(s). | Indicate the test method & technique, i.e. Black box - Equivalence Partitioning, etc. |

# 2. Test Specification

***2.1. Test Case ID***

Provide enough detail on the steps and sub-steps for the tester to perform the task.

Remember the tester, more often than not, knows nothing about the system other than what you provide for the test. Make sure you give the tester sufficient instructions.

|  |  |
| --- | --- |
| **Steps** | **Sub-Steps** |
|  | |  | | --- | |  | |  | |  | |  | |
|  | |  | | --- | |  | |  | |  | |  | |

**Test Completion Indicator:** [i.e. “Student Data Submitted Successfully.” – Addition of student record has been stored in database.]

**Evaluation Process:** [i.e. Open student record to ensure all fields entered were saved.]

***2.2. Next Test Case ID and so on.***

# 3. Test Results

***3.1. URL, Login Information, and Tester Instructions for the Working Application***

## For a Web application include the URL here as an active HyperLink and include login information

## For an application that must be locally installed, provide all the instructions necessary for the tester to download, install, and execute the Working Application and if necessary login.

***3.2. List of Test Steps***

If you are **not** asked to write code for the project, the Actual Output & Assessment columns in Section 3 should be deleted.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Input & Program State** | **Expected Output** | **Actual Output**  [if assigned] | **Assessment**  [if assigned] |
| 1. | 1.1 The program has completed its initialization and is ready to accept user input.  1.2 Data is entered into the fields  … | 1.1 All fields are available  1.2 The required fields cannot be empty  … | 1.1 All fields are available  ... | If you have a suggestion for how the fault might be corrected  OR  if you have a suggestion for how the feature might be implemented in a better way, fault or **no** fault, include here. |
|  |  |  |  |  |
|  |  |  |  |  |

# Appendix - Requirements Traceability Matrix

Update the matrix table that maps all the system requirements documented in the SRS Requirements Traceability Matrix through the design elements documented in the SDS into the Test Cases via the Requirements Number.

***Do not embed*** the matrix table in this document, but rather ***link*** to the separate document created for the SRS that contains the matrix table.

If some requirements are **not considered testable**, describe why not.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Priority**  **Required=1 Desired=2**  **Optional=3** | **Requirement # by Category**  **Category: [defined by project team]** | **Description** | **SRS Section** | **SDS Section** | **STS**  **Test Case ID** |
|  |  |  |  |  |  |

**Grading Criteria**



* Is the Deliverable organized & structured as required – **YES/NO**
* Was the Deliverable Template used and used correctly -- **YES/NO**
* Was the Table of Contents compete **– YES/NO**
* Were all sections present and adequate – **YES/NO**
* Were **ALL** the requirements listed in the SRS Requirements Traceability Matrix included in the Test Cases and in the Test Requirements Traceability Matrix – **YES/NO**



-- Check in the text for specific instructor comments on content –