**Software System**

**User Acceptance Test**

Joseph DeMario, Joseph Tooker, and Frank Palaia

CSC 430

**1 Introduction**

This user acceptance test document is to define the test environment, test data set and test procedures for the user acceptance test (UAT). The objectives of UAT are to test the software system against user/system requirement documents which were agreed on by user and development organizations. Based on the results of UAT, the software system can be either accepted (or accepted with conditions) or rejected which will lead to actions governed by contractual agreement documents signed between the two parties.

This document is intended for business management, UAT team, management team and system engineers in development organization.

**2** **Test Environment**

The UAT test environment in the case of our sports franchise project is on a local host on a windows browser. To simulate a UAT at a customer site, virtual labs on other computers could emulate the customers who test the software on other computers. Since the reference for the DLL is from a Microsoft Access database saved on a file on the local computer, the source of the data would have to be present as the connection string will vary on each machine. Visual Studio Web Application will set up a local host displaying the aspx file as the project is a public webpage for users to test.

**3** **Test Data Set**.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| P\_ID | Personnel\_Name | D\_ID | A\_ID | Salary | Date\_Signed |
| 500001 | Employee1 | 100000 | 120000 | 1000 | 1/1/2000 |
| 500002 | Employee2 | 200000 | 120001 | 10000 | 1/3/2019 |
| 500003 | Employee3 | 300000 | 120002 | 5000 | 1/30/2016 |
| 500004 | Employee4 | 400000 | 120001 | 8000 | 1/20/2013 |
| 500005 | Employee5 | 100000 | 120003 | 5000 | 2/1/2020 |

**4** **Exception Report**

The UAT team should document and report any exceptions (or malfunctions, crash etc…) following a predefined format and procedures defined in these sections.

A group has yet to execute our program and run into any exceptions.

**5** **UAT Test Result Review**

All the UAT test records should be reviewed by a pointed committee with members from both business and development organizations following a predefined review and dispute procedures. These procedures should be defined in this section. The committee should file a UAT Review Report with recommendation for acceptance or rejection. The key stakeholders should sign the report.

**6** **UAT Test Cases and Test Scripts**

Depend on the number functions in the system to be tested. This section can be a separate document or as an appendix of a UTA document.

**6.1** **Test Case**

UAT test includes a number of test cases (or test scenarios). In general each test case is designed to test a specific requirement. It includes a test case description, test case initialization (test case setup) and expected result.

* **Test Case 1.01** - Successful Agent Meeting Reservation
* **Test Case 1.02** - Unsuccessful Agent Meeting Reservation
* **Test Case 2.01** - Successful Add Personnel to Team
* **Test Case 2.02** - Unsuccessful Add to Team (No Agent Meeting)
* **Test Case 2.03** - Unsuccessful Add to Team (Not Enough Payroll)
* **Test Case 3.01** - Successful Remove from Team
* **Test Case 3.02** - Unsuccessful Remove from Team

**6.2** **Test Script**

Each test case has a number of test scripts that describes the exact actions that a UAT tester should perform in steps during the test for that particular test case. It provides a rigorous format for recording test results.

The samples below are test scripts for three example test cases, reserving a meeting with an agent, adding a member to the team, and removing a member from the team, in a software system for online sports management.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***TEST SCRIPT: 1.01 (Successful Agent Meeting Reservation)*** | | | | | |
| **Action Step** | **Test Action** | **Expected Results** | **Meets Expected**  **Yes No** | | **Comments** |
| 1 | Manager requests to meet with the agent and clicks the **Schedule Meeting** button. | The system verifies that the agent agreed on the meeting and the message will display indicating success.  Name of the agent will appear on the meetings queue. |  |  | If it is an exception, give the exception report reference number here. |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***TEST SCRIPT: 1.02 (Unsuccessful Agent Meeting Reservation)*** | | | | | |
| **Action Step** | **Test Action** | **Expected Results** | **Meets Expected**  **Yes No** | | **Comments** |
| 1 | Manager requests to meet with the agent and clicks the **Schedule Meeting** button. | The system verifies that the agent did not agree on meeting and a message will display indicating unsuccessful.  Name of the agent will not appear on the meetings queue. |  |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***TEST SCRIPT: 2.01 (Successful Add Personnel to Team)*** | | | | | |
| **Action Step** | **Test Action** | **Expected Results** | **Meets Expected**  **Yes No** | | **Comments** |
| 1 | Manager adds personnel to team and clicks the **Add to Team** button | The system verifies that the agent of the corresponding personnel was contacted and had a meeting with. The system verifies that payroll can accommodate salary. The personnel name will be added to the list of the team. The payroll will be deducted by the salary of the personnel. |  |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***TEST SCRIPT: 2.02 (Unsuccessful Add to Team - No Agent Meeting)*** | | | | | |
| **Action Step** | **Test Action** | **Expected Results** | **Meets Expected**  **Yes No** | | **Comments** |
| 1 | Manager adds personnel to team and clicks the **Add to Team** button | The system verifies that the agent of the corresponding personnel was not contacted and had no meeting with. The personnel name will not be added to the list of the team. The payroll will not change. |  |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***TEST SCRIPT: 2.03 (Unsuccessful Add to Team - Not Enough Payroll)*** | | | | | |
| **Action Step** | **Test Action** | **Expected Results** | **Meets Expected**  **Yes No** | | **Comments** |
| 1 | Manager adds personnel to team and clicks the **Add to Team** button | The system verifies that the agent of the corresponding personnel was contacted and had a meeting with. The system also verifies that the payroll does not have enough to afford personnel. The personnel name will not be added to the list of the team. The payroll will not change. |  |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***TEST SCRIPT: 3.01 (Successful Remove from Team)*** | | | | | |
| **Action Step** | **Test Action** | **Expected Results** | **Meets Expected**  **Yes No** | | **Comments** |
| 1 | Manager removes personnel from team and clicks the **Remove from Team** button | The system verifies that there is at least one member on the team. The payroll will be increased by the salary of the personnel removed and the name of personnel will be available again to add. |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***TEST SCRIPT: 3.02 (Unsuccessful Remove from Team)*** | | | | | |
| **Action Step** | **Test Action** | **Expected Results** | **Meets Expected**  **Yes No** | | **Comments** |
| 1 | Manager removes personnel from team and clicks the **Remove from Team** button | The system verifies that there are no members on the team. The payroll will not change. Message will display indicating there is no one to remove from the team. |  |  |  |

**7.** **Exception Report**

Exception report is a tool used when an unexpected outcome happens. The exception report should include:

* Test date and time
* Tester name
* Reference to test case number, test script number and step number.
* Test data used in the test
* Exception description in terms what has had happened (eg. screen shots) and why you think it is an exception.

A group has yet to execute our program and run into any exceptions.