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## American International University- Bangladesh (AIUB)

## Department of Computer Science

## Software Quality and Testing

## Spring 2021-2022

## Assignment: Writing and Executing test cases for AIUB system

## Objective: The objective of this assignment is to –

* Introduce students with the concept of test case
* Write test cases based on the requirements of the system under test
* Execute the test cases and finding defects, if any

## Submission Rules:

**Deadline**: **February 27, 2022**

**Group**: Group of 4/5 (minimum– four members; maximum– five members); you have to choose your assignment-partners

**Submission**: Submit a **soft copy (in MS Word)** of the test cases with executed results.

**The Title page must contain the Assignment title, Name and ID of the group members (in a Table).** Also, write your **course title** and **section-name** on title page.

**The Assignment must be e-mailed to: arouf@aiub.edu**

**Subject of the e-mail must be:** **SQAT (E) Assignment**

**File name of the assignment must be**: **One of the group members ID.docx** (***e.g.* 19-24313-3.docx**).

Only one person from a group should e-mail me the assignment.

**Plagiarism**: 100% penalty for all the groups involved in copying each other’s works (It includes the original producer).

**Late Submission**: NOT allowed. You will get zero in that case.

**Total marks**: 20% of the midterm marks

**Problem statement**: Suppose your IT firm **Datasoft, Inc**. has been awarded the contract to test the AIUB system. For that you need to develop a Test Plan first. Assume that you have already developed the Test Plan. Now you have to write the test cases based on the requirements and functionalities of the system. Then you have to execute those test cases and identify bugs (defects), if any. However, due to time constraint (in our case), you have to write and execute only few test cases. (But do NOT forget that in practice you have to write test cases for all the requirements of the system to make sure the software is tested against all requirements!).

Below is a sample Test Case format, use it for your project.

**Sample Test Case Format:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Action / Description** | **Requirement #** | **Expected Results** | **Actual Results** | **Status** | **Comments** |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Example:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Action** | **Requirement #** | **Expected**  **Results** | **Actual**  **Results** | **Status** | **Comments** |
| TC\_101 | Put the mouse pointer over About Us | 110.1 | A drop-down list will appear with the items –Home,  Introduction, General Information, Why study here, Resources, Convocation | A drop-down list appears with the items –Home, Introduction, General Information, Why study here, Resources, Convocation | Passed | The item passed |
| TC\_102 | Click on ‘Home’ | 110.1.1 | Clicking on the ‘Home’ brings to http://www.aiub.edu | Clicking on the ‘Home’ brings to  https://fst.aiub.edu/ | Failed | The test case failed. |
| TC\_103 | ….. | ... | …. | … | …. | … |
| TC\_104 | ….. | ... | …. | … | …. | … |