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## American International University- Bangladesh (AIUB)

## Department of Computer Science

## Software Quality and Testing

## Spring 2019-2020

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

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

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

## Submission Rules:

**Deadline**: February 24, 2020 (Monday)

**Group**: Group of 5 (four); you have to choose your assignment-partners

**Submission**: Submit a hard copy of the test cases with executed results

**Late Submission**: NOT allowed (you will get zero in case of late submission)

**Problem statement**: Suppose your IT firm **Southtech, 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 and execute many test cases for the whole 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** | **Requirement #** | **Expected Results** | **Actual**  **Results** | **Pass/Fail** | **Comments** |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Example:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Action** | **Requirement #** | **Expected**  **Results** | **Actual**  **Results** | **Pass/Fail** | **Comments** |
| TC\_201 | Put the mouse pointer over About Us | 111.1 | 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\_202 | Click on ‘Home’ | 111.1.1 | Clicking on the ‘Home’ brings to http://www.aiub.edu | Clicking on the ‘Home’ brings to http://www.cs.aiub.edu/about | Failed | The test case failed. |
| TC\_203 | ….. | ... | …. | … | …. | … |