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## American International University- Bangladesh (AIUB)

## Department of Computer Science

## Software Quality and Testing

## Fall 2020-2021

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

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**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.

**Sample Test Case Format:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Action** | **Requirement #** | **Expected**  **Results** | **Actual**  **Results** | **Pass/Fail** | **Comments** |
| TC\_101 | http://www.aiub.edu | 510.0 | Should contain Web Mail, Login, About Us, Academics, Faculty, Offices, Administration, Miscellaneous, Admission, Contact, and Career. | Should contain Web Mail, Login, About Us, Academics, Faculty, Offices, Administration, Miscellaneous, Admission, Contact, and Career. | Passed | The item passed |
| TC\_102 | the mouse pointer is put over ‘About’ | 511.1 | a drop-down list opens with the items –Information, General Information, Why Study here, Resources, Career, Convocation, Video | a drop-down list opens with the items –Information, General Information, Why Study here, Resources, Career, Convocation, Video | Passed | The item passed(there are also information mention here about rules of campus entry) |
| TC\_103 | Clicking on the link ‘Information’ | 511.1.1 | brings a page containing Vision, Mission, Quality Policy, Goals | brings a page containing Vision, Mission, Quality Policy, Goals | Passed | The item passed (There are more information mention here about Linkages and Networking,Institutional member,member,Score Recipient: CODE 7067) |
| TC\_104 | Clicking on ‘General Information’ | 511.1.2 | brings to a new page containing information regarding –Degrees Offered at Present, up-coming academic programs, name and picture of Academic Council, and name of Board of Trustees’ Nominee | brings to a new page containing information regarding –Degrees Offered at Present, up-coming academic programs, name and picture of Academic Council, and name of Board of Trustees’ Nominee  But there are no information about picture of Academic Council. | Failed | The test case failed. |
| TC\_105 | Clicking on ‘Why study here’ | 511.1.3 | brings to a page titled ‘Why study at AIUB?’ | (Because Clicking on ‘Why study at AIUB’ brings to a page titled ‘Why study here') | Failed | The test case failed. |
| TC\_106 | clicked on ‘Resources’ | 511.1.4 | the system displays a page containing information about Library Facilities,  AIUB ICT facilities, Laboratory facilities, Auditorium, Student Health Services, Hostel Facilities, Student Transportation Facilities, Security Services | the system displays a page containing information about Library Facilities, AIUB ICT facilities, Laboratory facilities, Auditorium, Student Health Services, Hostel Facilities, Student Transportation Facilities, Security Services | Passed | The item passed (But there is also information about transport facilities ) |
| TC\_107 | clicked on ‘Career’ | 511.1.5 | the system opens a page titled Career Opportunities for ‘`Fresh Graduates’ | There are no information for fresh graduate | Failed | The test case failed. |
| TC\_108 | Clicking on ‘Convocation’ | 511.1.6 | brings to a page titled ‘CONVOCATION’ with a list from 1st Convocation to  15th Convocation. The page also displays a graph showing the number of graduates of every convocation | brings to a page titled ‘CONVOCATION’ with a list from 1st Convocation to  15th Convocation. The page also displays a graph showing the number of graduates of every convocation | Passed | The item passed |
| TC\_109 | Clicking on 1st Convocation | 511.1.6.1 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of the first convocation  brings to a page that contains information about the venue, date, of students graduated, and pictures of that convocation | There are no information about venue, date number of students and picture are available | Failed | The test case failed. |
| TC\_110 | Clicking on 2nd Convocation | 511.1.6.2 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | There are no information about venue, date number of students and picture are available | Failed | The test case failed. |
| TC\_111 | Clicking on 3rd Convocation | 511.1.6.3 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | Passed | The item passed |
| TC\_112 | Clicking on 4th Convocation | 511.1.6.4 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | There are no information about venue, date number of students and picture are available | Failed | The test case failed. |
| TC\_113 | Clicking on 5th Convocation | 511.1.6.5 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | venue, date are not available | Failed | The test case failed. |
| TC\_115 | Clicking on 6th Convocation | 511.1.6.6 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | venue, date are not available | Failed | The test case failed. |
| TC\_116 | Clicking on 7th Convocation | 511.1.6.7 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | venue, date are not available | Failed | The test case failed. |
| TC\_117 | Clicking on 8th Convocation | 511.1.6.8 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | Passed | The item passed |
| TC\_118 | Clicking on 9th Convocation | 511.1.6.9 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | Passed | The item passed |
| TC\_119 | Clicking on 10th Convocation | 511.1.6.10 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | brings to a page that contains coming soon | Failed | The test case failed. |
| TC\_120 | Clicking on 11th Convocation | 511.1.6.11 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | brings to a page that contains coming soon | Failed | The test case failed. |
| TC\_121 | Clicking on 12th Convocation | 511.1.6.12 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | brings to a page that contains coming soon | Failed | The test case failed. |
| TC\_122 | Clicking on 13th Convocation | 511.1.6.13 | brings to a page that contains information about the venue, date,  number of students graduated, and pictures of that convocation | brings to a page that contains coming soon | Failed | The test case failed. |
| TC\_123 | Clicking on 14th Convocation | 511.1.6.14 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | brings to a page that contains coming soon | Failed | The test case failed. |
| TC\_124 | Clicking on 15th Convocation | 511.1.6.15 | brings to a page that contains information about the venue, date, number of students graduated, and pictures of that convocation | brings to a page that contains Error | Failed | The test case failed. |
| TC\_125 | the mouse pointer is put over ‘About’ | 511.1.7 | a drop-down list appears of which ‘Video’ is the last item. On clicking on ‘Video’, the system displays four video clips to view | a drop-down list appears of which ‘Video’ is the last item. On clicking on ‘Video’, the system displays three video clips to view | Failed | The test case failed. |
| TC\_126 | Putting the mouse pointer over ‘Academics’ | 512.0 | the homepage displays a drop-down list with the  items –Academic Regulations, Admission & Registration, Courses & Tuition Fees, Academic  Calendar | the homepage displays a drop-down list with the  items –Academic Regulations, Admission & Registration, Academic Calendar but not show Courses & Tuition Fees | Failed | The test case failed. |
| TC\_127 | Clicking on ‘Academic Regulations’ | 512.1 | bring to a page titled ‘Academic Regulations’ which includes  items – Semester System, Teaching Method, Grading System, Computation of CGPA, Sequence of  Subjects, Academic Load, Class Attendance, Academic Probation, Warning, Time Limit, Repeating Courses, Transfer of Credits, Discontinuance of Studies, Graduation Requirements, Examination Guidelines, Appeal of a Course Grade, Student Conduct and Disciplinary Actions, Code of Conduct, Offences, Student Organizations and Activities, Political Activities, Sanction, Graduation, Academic Scholarship/Discount Policy | bring to a page titled ‘Academic Regulations’ which includes  items – Semester System, Teaching Method, Grading  System, Computation of CGPA, Sequence of  Subjects, Academic Load, Class Attendance, Academic Probation, Warning, Time Limit, Repeating Courses, Transfer of Credits, Discontinuance of Studies, Graduation Requirements, Examination Guidelines, Appeal of a Course Grade, Student Conduct and Disciplinary Actions, Code of Conduct, Offences, Student Organizations and Activities, Political Activities, Sanction, Graduation, Academic Scholarship/Discount Policy | Passed | The item passed |
| TC\_128 | Under ‘Academics’ drop-down list, clicking on ‘Courses and Tuition Fees’ | 512.1.1 | displays a page that contains  information about different courses and tuition fees | problem-there is information about courses but not tuition fees | Failed | The test case failed. |
| TC\_129 | Under ‘Academics’ drop-down list, when clicked on the ‘Academic Calendar’, | 512.1.2 | , the system displays the  academic calendar for all three semester | it shows only 5 months | Failed | The test case failed. |
| TC\_130 | When the mouse pointer is put over ‘Administration’, | 513.0 | a drop-down list with the following items is displayed –The Vice Chancellor, The Chairman, The Founders | a drop-down list with the following items is displayed –The Vice Chancellor, The Chairman, The Founders | Passed | The item passed |
| TC\_131 | When the mouse pointer is put over ‘Admission’, | 515.0 | a drop-down list with the following items is displayed – Admission Information, Admission Requirements | problem-it shows Admission info but not the Admission requirements | Failed | The test case failed. |