



American International University- Bangladesh (AIUB)
Department of Computer Science
Software Quality and Testing
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Writing and Executing Test Cases for AIUB System

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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!).**

Now the test cases based on the requirements and functionalities of the system is given below with a table:

Test Case #	Action	Requirement #	Expected Results	Actual Results	Pass/Fail	Comments
TC_101	Click the cursor on the AIUB Logo from the AIUB index	110.0	The website http://www.aiub.edu should contain the major items –Home, About, Academics Administration, Faculties, Offices, Admission, Contact, Webmail, Login	The website http://www.aiub.edu should contain the major items –Home, About, Academics Administration, Faculties, Offices, Admission, Contact, Webmail, Login	Passed	The test case Passed.

TC_102	Put the mouse pointer over "About"	111.1	When the mouse pointer is put over 'About', a drop-down list opens with the items Information General Information, Why Study here, Resources, Career, Convocation, Video	When the mouse pointer is put over 'About', a drop-down list opens with the items Information General Information, Why Study here, Rules of Campus History, Resources, Career, Convocation, Video	Passed	The test case Passed.
TC_103	Click on the link "Information" from "About" dropdown list	111.1.1	Clicking on the link 'Information' brings a page containing Vision, Mission, Quality Policy, Goals	Clicking on the link 'Information' brings a page containing Vision, Mission, Quality Policy, Goals, Linkages and networking, Institutional member, Member, Score Recipient	Passed	The test case Passed.
TC_104	Clicking on 'General Information' brings to a new page	111.1.2	Clicking on 'General Information' 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	Clicking on 'General Information' brings to a new page containing information regarding –Degrees Offered at Present, name of Academic Council, and name of Board of Trustees' Nominee.	Failed	The test case Failed. Because, here is missed out two information -"up-coming academic programs and picture of Academic Council.

TC_105	Clicking on “Why study here” from “About” dropdown list	111.1.3	Clicking on ‘Why study here’ brings to a page titled ‘Why study at AIUB?’	Clicking on ‘Why study here’ brings to a page titled ‘Why study here?’	Failed	The test case Failed. Because, the given title doesn’t match.
TC_106	Clicking on “Resources” The system displays a page containing information	111.1.4	When clicked on ‘Resources’, 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	When clicked on ‘Resources’, the system displays a page containing information about Library Facilities, AIUB ICT facilities, Laboratory facilities, Auditorium, Student Health Services, Hostel Facilities, Security Services	Failed	The item is Failed. Because, an item “Student Transportation Facilities” is missed out.
TC_107	Clicking on “Career “the system opens a page	111.1.5	When clicked on ‘Career’, the system opens a page titled Career Opportunities for ‘Fresh Graduates’	When clicked on ‘Career’, the system opens a page titled Career Opportunities for ‘Post Graduate; BSc Engineer; Diploma in Automobile Engineer’ and ‘Faculty Search’	Failed	The item is Failed for missing out a title career opportunity for “Fresh Graduates”

TC_108	Clicking on “Convocation” from “About” in dropdown list	111.1.6	Clicking on ‘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	Clicking on ‘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 test case is passed
TC_109.1	Clicking on 1 st Convocation from the list	111.1.6.1	Clicking on 1 st Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the first convocation	Clicking on 1 st Convocation brings to a page that have shown a title ‘First convocation’ And a raw comment- ‘Coming soon...’	Failed	The item is Failed by missed out “The venue and pictures” those information

TC_109.2	Clicking on 2 nd Convocation from the list	111.1.6.2	Clicking on 2 nd Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the second convocation	Clicking on 2 nd Convocation brings to a page that have shown a title 'Second Convocation' And a raw comment- 'Coming soon...'	Failed	The item is Failed by missed out "The venue and pictures" those information
TC_109.3	Clicking on 3 rd Convocation from the list	111.1.6.3	Clicking on 3 rd Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the third convocation	Clicking on 3 rd Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the third convocation	Passed	The test case is Passed
TC_109.4	Clicking on 4 th Convocation from the list	111.1.6.4	Clicking on 4 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the fourth convocation	Clicking on 4 th Convocation brings to a page that have shown a title 'Fourth Convocation' And some information included Special Guests name and name of Vice Chancellor's, Admin, Board of Trustees, Directors, Deans, Officers & Faculty	Failed	The test case is Failed by missed out some given information "Venue, Pictures of fourth convocation"

TC_109.5	Clicking on 5 th Convocation from the list	111.1.6.5	Clicking on 5 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the fifth convocation	Clicking on 5 th Convocation brings to a page that have shown a title 'Fifth Convocation' And some information included Special Guests, Foreign guests, local guests name and name of Vice Chancellor's, Admin, Board of Trustees, Directors, Deans, Officers & Faculty	Failed	The test case is Failed by missed out some given information "Venue, Pictures of fourth convocation"
TC_109.6	Clicking on 6 th Convocation from the list	111.1.6.6	Clicking on 6 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the sixth convocation	Clicking on 6 th Convocation brings to a page that contains information about date, number of students graduated from graph, and pictures of the sixth convocation	Failed	The test case is Failed by missed out some given information "Venue"
TC_109.7	Clicking on 7 th Convocation from the list	111.1.6.7	Clicking on 7 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the seventh convocation	Clicking on 7 th Convocation brings to a page that have shown a title 'Seventh Convocation' And number of graduate students from graph, Pictures of this Convocation	Failed	The test case is Failed by missed out some given information "Venue"

TC_109.8	Clicking on 8 th Convocation from the list	111.1.6.8	Clicking on 8 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the eighth convocation	Clicking on 8 th Convocation brings to a page that have shown a title 'Eighth Convocation' And some information about the venue, date, number of given awards to the meritorious and included also name of Special Guests, Foreign guests, local guests name and name of Vice Chancellor's, Admin, Board of Trustees, Directors, Deans, Officers & Faculty	Passed	The test case is Passed
TC_109.9	Clicking on 9 th Convocation from the list	111.1.6.9	Clicking on 9 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the ninth convocation	Clicking on 9 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the ninth convocation	Passed	The Test case is passed

TC_109.10	Clicking on 10 th Convocation from the list	111.1.6.10	Clicking on 10 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the tenth convocation	Clicking on 10 th Convocation brings to a page that have shown a title 'Tenth convocation' And a raw comment- 'Coming soon...'	Failed	The item is Failed by missed out "The venue and pictures" those information
TC_109.11	Clicking on 11 th Convocation from the list	111.1.6.11	Clicking on 11 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the eleventh convocation	Clicking on 11 th Convocation brings to a page that have shown a title 'Eleventh Convocation' And a raw comment- 'Coming soon...'	Failed	The item is Failed by missed out "The venue and pictures" those information
TC_109.12	Clicking on 12 th Convocation from the list	111.1.6.12	Clicking on 12 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the twelfth convocation	Clicking on 12 th Convocation brings to a page that have shown a title 'Twelfth Convocation' And a raw comment- 'Coming soon...'	Failed	The item is Failed by missed out "The venue and pictures" those information

TC_109.13	Clicking on 13 th Convocation from the list	111.1.6.13	Clicking on 13 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the thirteenth convocation	Clicking on 13 th Convocation brings to a page that have shown a title 'Thirteenth Convocation' And a raw comment- 'Coming soon...'	Failed	The item is Failed by missed out "The venue and pictures" those information
TC_109.14	Clicking on 14 th Convocation from the list	111.1.6.14	Clicking on 14 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the fourteenth convocation	Clicking on 14 th Convocation brings to a page that have shown a title 'Fourteenth Convocation' And a raw comment- 'Coming soon...'	Failed	The item is Failed by missed out "The venue and pictures" those information
TC_109.15	Clicking on 15 th Convocation from the list	111.1.6.15	Clicking on 15 th Convocation brings to a page that contains information about the venue, date, number of students graduated, and pictures of the fifteenth convocation	Clicking on 15 th Convocation brings to a page where an error occurred while processing the request and shows two links for bringing to Home page and another is for contact	Failed	The test case is Failed for being missed out given all requirements of 15 th convocation

TC_109.16	Put over the mouse pointer on “About” a dropdown list appears and click over the last elements “Video”	111.1.7	If the mouse pointer is put over ‘About’ a drop-down list appears of which ‘Video’ is the last item. On clicking on ‘Video’, the system displays four video clips to view	If the mouse pointer is put over ‘About’ a drop-down list appears of which ‘Video’ is the last item is “Channel-I report on AIUB” and clicking on ‘Video’, the system displays only three video clips to view where one video is removed from You Tube account and had gone private	Failed	The test case is Failed for being missed out given Three videos instead of Four videos
TC_109.17	Put the mouse pointer over ‘Academics’ in the homepage displays a drop-down list will appear	111.1.9	Putting the mouse pointer over ‘Academics’ in the homepage displays a drop-down list with the items –Academic Regulations, Admission & Registration, Courses & Tuition Fees, Academic Calendar	Putting the mouse pointer over ‘Academics’ in the homepage displays a drop-down list with the items –Academic Regulations, Courses & Tuition Fees, Academic Calendar	Failed	The item is Failed because of “Admission & Registration” is missing

TC_109.18	Clicking on 'Academic Regulations' bring to a page titled 'Academic Regulations'	111.1.10	Clicking on 'Academic Regulations' 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	Clicking on 'Academic Regulations' 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, Sanction, Graduation, Academic Scholarship/Discount Policy	Failed	The test case is Failed Because of missing out an item "Political Activities"
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TC_109.19	Put the mouse pointer over 'Academics' in the homepage displays a drop-down list will appear and clicking on 'Courses and Tuition Fees'	111.1.11	Under 'Academics' drop-down list, clicking on 'Courses and Tuition Fees' displays a page that contains information about different courses and tuition fees	Under 'Academics' drop-down list, clicking on 'Courses and Tuition Fees' displays a page that contains information about different courses and tuition fees	Passed	The test case is Passed
TC_109.20	Click on the 'Academic Calendar', the system displays a page	111.1.12	Under 'Academics' drop-down list, when clicked on the 'Academic Calendar', the system displays the academic calendar for all three semesters	Under 'Academics' drop-down list, when clicked on the 'Academic Calendar', the system displays the academic calendar for only one semester "Summer 2019-20"	Failed	The item is Failed Because there have only one semester and a note where has been written 'AIUB reserves the right to change the academic calendar.'
TC_109.21	Put over the mouse pointer on 'Administration', a drop-down list will appear	111.1.13	When the mouse pointer is put over 'Administration', a drop-down list with the following items is displayed –The Vice Chancellor, The Chairman, The Founders	When the mouse pointer is put over 'Administration', a drop-down list with the following items is displayed –The Vice Chancellor, The Chairman, The Founders	Passed	The test case is Passed

TC_109.22	Put the mouse pointer over “Offices” a dropdown list with some items will be occurred	111.1.14	When the mouse pointer is put over ‘Offices’, a drop-down list with the following items is displayed – Office of Planning & Development (OPD), Office of Cultural Affairs (OCA), Office of Sports (OS), Office of Probation (OP), Office of Placement & Alumni (OPA), Office of Students Affairs (OSA), Office of Public Relations (OPR), Office of International Students (OIS), Office of Finance and Audit (OFA).	When the mouse pointer is put over ‘Offices’, a drop-down list with the following items is displayed – Office of Planning & Development (OPD), Office of Cultural Affairs (OCA), Office of Sports (OS), Office of Probation (OP), Office of Placement & Alumni (OPA), Office of Students Affairs (OSA), Office of Public Relations (OPR), AIUB Center for Research and Excellence (ACRE), Office of Finance and Audit (OFA), Office of the Controller of Examinations and Office of the register.	Failed	The test case is Failed for being missed out an given item “Office of International Students (OIS)”
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Thank You