April 7, 2013

Integrated Campus

Test Report Increment – II

Group 2

Revision History:

Version	Primary Author(s)	Description of Version	Reviewed By	Date Completed
v_2.0	Vidhan Agarwal, Nalin Patidar	This is the first version of Test Report Increment - II	Sushant Pritmani	07-04-2013

Introduction

Purpose

This Test Report provides a summary of the results of test performed as outlined within this document. Software testing is the process used to help identify the correctness, completeness, security and quality of the developed computer software. Testing is the process of analyzing a software item to detect the differences between existing and required conditions and to evaluate the features of the software item. The main purpose of testing is to ensure that all the modules are functioning as desired and as mentioned in the SRS.

Test Summary

Project Name: Integrated Campus

Version Number: 1.0

Additional Comments: This test report contains the test results of the features implemented in the first increment of the project.

Component Testing

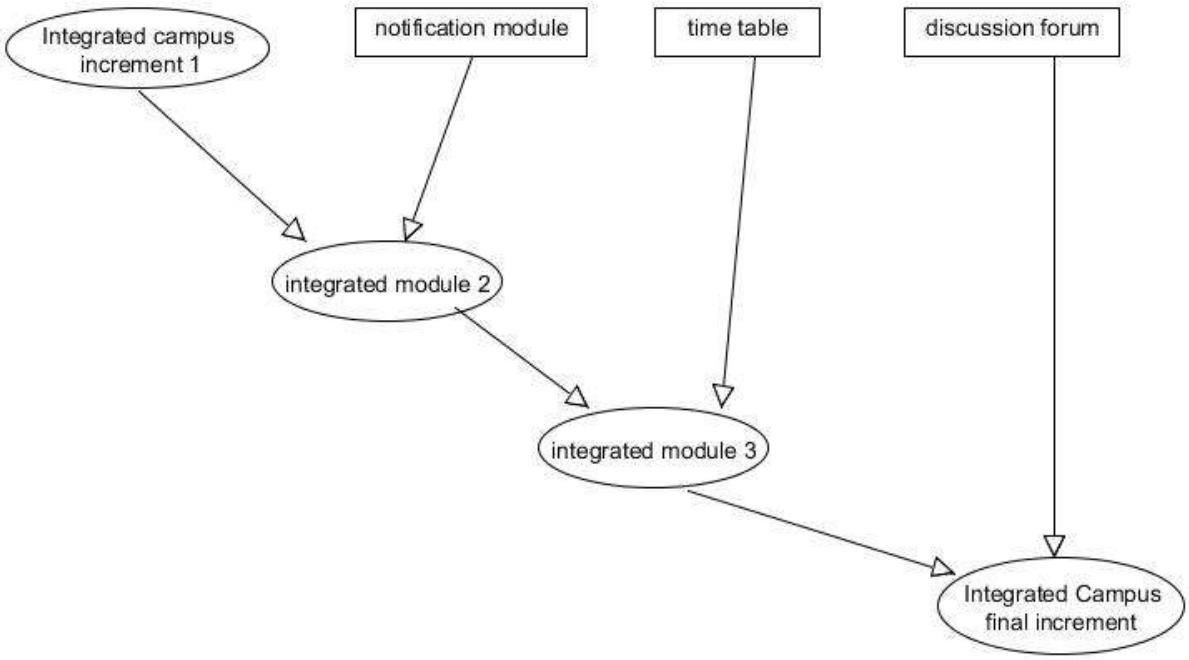
The unit testing phase of our project included the testing of the following components:

1. Attendance
   a. Update by faculty.
   b. Check by student and faculty.
2. Course Material
   a. Upload by faculty.
   b. Student can view and download uploaded material.
3. Polling
   a. Faculty can create a poll and can see its result.
   b. Student can answer a poll one time.
4. Time table
   a. Student can see their personal time table.
5. Discussion forum
   a. Student can start a discussion thread.
   b. Student and faculty can view and comment on any discussion topic.
6. Notification
   a. A notification bar with all the latest updates.

All the above components were tested and found to be working as required.

INTEGRATION TESTING

All the standalone alone modules were then integrated to form the first increment of the project ‘Integrated Campus’. And the integrated module was then tested for the required functionality.



SECURITY TESTING

The following were tested successfully to achieve the necessary security for our product:

1. The passwords will be stored using MD5 hash algorithm.
2. Every time a user logs in, a session id is created which is eventually destroyed after the user logs out.
3. Once a user logs out, the back button is disabled.
4. Log in id and password are verified for SQL injection so that anonymous can't log in using malicious data.
5. In case a user forgets his/her password, new randomly generated password is sent to user's verified e-mail id.

RECOVERY TESTING

For the time being all the files are stored on many different computers or hard drives. And backup of all the data is being taken to different storage device

SYSTEM TESTING

The table below summarizes the results of system testing for the increment 2 of **'Integrated Campus'**:

Test Case ID	Tester	Pass/Fail	Severity of Defect	Summary of Defect	Comments
TC01	Nalin Patidar	p	-	-	Log in feature working correctly.
TC02	Nalin Patidar	p	-	-	Log out feature working correctly
TC03	Nalin Patidar	p	-	-	Change password is implemented perfectly
TC04	Nalin Patidar	p	-	-	Student is able to access the uploaded course material.

TC05	Nalin Patidar	p	-	-	Student is able to see his updated attendance.
TC06	Nalin Patidar	p	-	-	New password is received on the verified e-mail id.
TC07	Nalin Patidar	p	-	-	Students is able to respond to the poll and his response is saved. And not able to respond twice.
TC08	Nalin Patidar	p	-	-	Attendance is updated, and the same is reflected at the corresponding student's page.
TC09	Nalin Patidar	p	-	-	Faculty can view the attendance of individual student and of whole class too in percentage.
TC10	Nalin Patidar	p	-	-	Poll is created successfully and is visible on enrolled student's page.
TC11	Nalin Patidar	p	-	-	Course material is uploaded and is visible on enrolled student's page.
TC12	Nalin Patidar	P	-	-	SMS is sent to the contact number of the given id.

TC 13	Nalin Patidar	P			Student is able to see the previous courses and can access the material.
TC 14	Nalin Patidar	P			Faculty can see the previous courses and can delete the files present there.
TC 15	Nalin Patidar	P			Course is created.
TC 16	Nalin Patidar	P			Student profile is added.
TC 17	Nalin Patidar	P			Faculty profile is added.
TC 18	Nalin Patidar	P			TA is assigned to the particular course.
TC 19	Nalin Patidar				Faculty is assigned a course.
TC 20	Nalin Patidar	P			Student is added to the course.
TC 21	Nalin Patidar	P			Notification is displayed on the right side and on clicking it a new tab is opened.
TC 22	Nalin Patidar	F	Low	Automatic update of timetable is not implemented.	But personal timetable is visible.
TC 23	Nalin Patidar	P			Student is able to create a discussion thread.
TC 24	Nalin Patidar	P			User is able to respond to the discussion threads.
TC 25	Nalin Patidar	F			Student is able to delete only his own response. Faculty is able to delete any response.

TC 26	Nalin Patidar	F	Medium	Notification is not automatically updated.	
TC 27	Nalin Patidar	P			Personalized timetable is generated of each student from the time table generated by admin.
TC 28	Nalin Patidar	F	Medium	Function not implemented.	

Performance Testing

For reducing the response time we have used AJAX. Also parallelism is being implemented using Ajax so different part of the website can load simultaneously and one don't have to wait for the entire site to load first to carry out any task. Also developer tool are used to analyze size (content) and time (latency) of data transferred. Also a regular checking was done at various level to know what data is being exchanged between server and the browser to know if there is any redundant data increasing the response time.

Test Assessment

The tests were quite adequate as they succeeded in pointing out a number of validations and some coding errors. They were carried out thoroughly according to our test plan. This report includes the results of all the test cases. Also we conducted a beta-testing for performance and an acceptance test from our client.

Test Results

Testing results were as follows: All the test cases have been passed. Also the tests conducted during Performance and acceptance testing were positive.

Component Testing

Test Owner: Nalin Patidar

Test Date: 11/03/2013-13/03/2013

Test Results: All component tests were successful.

Integration Testing

Test Owner: Vidhan Agrawal and Ayush Jain

Test Date: 13/03/2013-15/03/2013

Test Results: All integration testing were successful.

Security Testing

Test Owner: Vidhan Agrawal

Test Date: 14/03/2013

Test Results: The system is secure in terms of five basic security concepts that needed to be

secured.

Recovery Testing

Test Owner: Ayush Jain

Test Date: 15/03/2013

Test Results: The system is fast and there have been absolutely no faults encountered till now.

System Testing

Test Owner: Nalin Patidar

Test Date: 16/03/2013-18/03/2013

Test Results: All the test cases as cited in the test cases report were conducted and all test cases passed.

Performance Testing

Test Owner: Vidhan Agrawal

Test Date: 16/03/2013-18/03/2013

Test Results: All Performance tests were successful.

Resolved Test Incidents

All test cases have been resolved.

Unresolved Test Incidents

There are no unresolved test cases.