Team BoardsReview - CM Capstone Spring 2010

Chicago Board of Review Course Site

Test Plan & Report Document

Introduction

Our project is to update a Course Management System for David Laborde and DVL Holdings. The website will is the precursor to an online commercial system that would provide course management solutions to clients. The website is an asset for participants to use and access resources and lectures provided by the Clients. This system will make it easier for participants to study the materials given, refer to past lectures, access notes and presentations, and better prepare for the examinations. The future hope for this to be expanded to provide the ability to manage multiple course sites.

Our work on this project consists mainly of updating the user interface and front end of the website as well as creating a multimedia page/viewer to view resources.
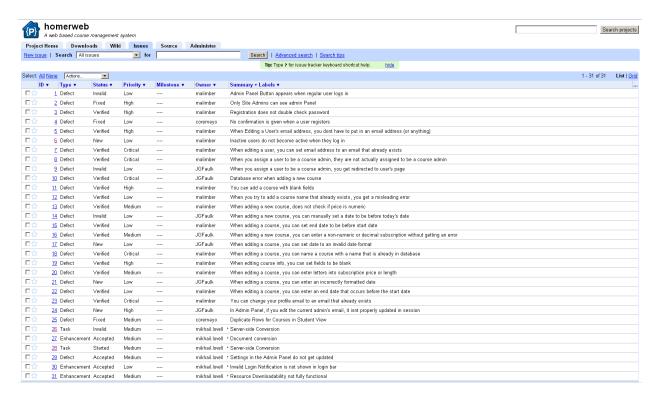
Strategy

Mikhail Lovell will be primarily in charge of quality assurance and the other programmers (Matt Remmele, Derek Tatum, and Jared Caldwell) will aid in the testing process. Because Mikhail worked the most on documentation, he will be responsible for the non-source code (document) quality.

We will be performing unit, system, and usability testing on the aspects that we have updated, changed, or added to the system. Unit tests will be performed whenever the associated method is updated and will be done through white-box testing. Usability testing will be accomplished through functional walkthroughs in a browser. System testing will be handled through requirement tracing, and all possible inputs will be considered when creating tests. System tests will be done through black box testing because the system is too complicated to perform white-box testing on. System tests occur prior to meeting with the customer to make sure that the most up-to-date version is working. Because we didn't focus a lot on the user interface until later in the semester, we only performed acceptance testing with the client by getting him to approve mockups, the reorganization of the home page, and the addition of a dropdown login bar.

For the non-source code (document) quality testing, we will test each document to check for readability, spelling & grammar errors, and organization (Can people find things in it quickly?).

We have our code stored on Google Code project hosting, so we will use their issue tracking system to track bugs. Priority of bug fixes can be ranked as low, medium, high, or critical. Their status will be indicated as new (new bug), fixed (code has been edited and we think it is fixed), verified (tested and verified to work), invalid (not a bug), and WontFix (no action will be taken).

Here is the most up-to-date tracking of our bugs:

homerweb
A web based course management system

Project Home | Downloads | Wiki | **Issues** | Source | Administer

New issue | Search All issues for [ ] Search | Advanced search | Search tips

Tip: Type ? for issue tracker keyboard shortcut help.   hide

Select: All None Actions...   1 - 31 of 31   List | Grid

ID ▾	Type ▾	Status ▾	Priority ▾	Milestone ▾	Owner ▾	Summary + Labels ▾
1	Defect	Invalid	Low	----	malimber	Admin Panel Button appears when regular user logs in
2	Defect	Fixed	High	----	malimber	Only Site Admins can see admin Panel
3	Defect	Verified	High	----	malimber	Registration does not double check password
4	Defect	Fixed	Low	----	coremayo	No confirmation is given when a user registers
5	Defect	Verified	High	----	malimber	When Editing a User's email address, you dont have to put in an email address (or anything)
6	Defect	New	Low	----	malimber	Inactive users do not become active when they log in
7	Defect	Verified	Critical	----	malimber	When editing a user, you can set email address to an email that already exists
8	Defect	Verified	Critical	----	malimber	When you assign a user to be a course admin, they are not actually assigned to be a course admin
9	Defect	Invalid	Low	----	JGFaulk	When you assign a user to be a course admin, you get redirected to user's page
10	Defect	Verified	Critical	----	JGFaulk	Database error when adding a new course
11	Defect	Verified	High	----	malimber	You can add a course with blank fields
12	Defect	Verified	Low	----	malimber	When you try to add a course name that already exists, you get a misleading error
13	Defect	Verified	Medium	----	malimber	When adding a new course, does not check if price is numeric
14	Defect	Invalid	Low	----	JGFaulk	When adding a new course, you can manually set a date to be before today's date
15	Defect	Verified	Low	----	malimber	When adding a course, you can set end date to be before start date
16	Defect	Verified	Medium	----	JGFaulk	When adding a new course, you can enter a non-numeric or decimal subscription without getting an error
17	Defect	New	Low	----	JGFaulk	When adding a course, you can set date to an invalid date format
18	Defect	Verified	Critical	----	malimber	When editing a course, you can name a course with a name that is already in database
19	Defect	Verified	High	----	malimber	When editing course info, you can set fields to be blank
20	Defect	Verified	Medium	----	malimber	When editing a course, you can enter letters into subscription price or length
21	Defect	New	Low	----	JGFaulk	When editing a course, you can enter an incorrectly formatted date
22	Defect	Verified	Low	----	malimber	When editing a course, you can enter an end date that occurs before the start date
23	Defect	Verified	Critical	----	malimber	You can change your profile email to an email that already exists
24	Defect	New	High	----	JGFaulk	In Admin Panel, if you edit the current admin's email, it isnt properly updated in session
25	Defect	Fixed	Medium	----	coremayo	Duplicate Rows for Courses in Student View
26	Task	Invalid	Medium	----	mikhail.lovell	Server-side Conversion
27	Enhancement	Accepted	Medium	----	mikhail.lovell	Document conversion
28	Task	Started	Medium	----	mikhail.lovell	Server-side Conversion
29	Defect	Accepted	Medium	----	mikhail.lovell	Settings in the Admin Panel do not get updated
30	Enhancement	Accepted	Low	----	mikhail.lovell	Invalid Login Notification is not shown in login bar
31	Enhancement	Accepted	Medium	----	mikhail.lovell	Resource Downloadability not fully functional

Adequacy Criterion

Because we only updated the code and added a few features, we will only create unit tests for the methods we updated or added. There will be at least one unit test for each of the updated or new methods and this should cover every line of code that we touched. This will help to ensure the quality of the code.

System testing will be done for every use case that we have made for ourselves, not the use cases that were implemented by the past team (unless they were updated). These tests will also correspond to the requirements for the project. All valid and invalid inputs will be tested. This will ensure the product meets the requirements as well as our usability goals.

Planned Test Cases and Results

Test #	Requirement Purpose	Action/Input	Expected Result	Actual Result	Pass/Fail	Notes
1	Use Case 1: Upload Resource	Upload .mpg video file in the Admin Panel in the Introduction Lecture of the Neurosurgery 2009 Course	Convert video file to .flv & embed in Resource page	(local only) Converted & embedded successfully	Pass	This currently only works locally due to the lack of a dedicated server.
	Use Case 1: Upload Resource	Upload .pdf file in the Admin Panel in the Introduction Lecture of the Neurosurgery 2009 Course	Convert document to .swf & embed in Resources	(local only) Converted & embedded successfully	Pass	This currently only works locally due to the lack of a dedicated server.
	Use Case 1: Upload Resource	Upload .doc/.docx file in the Admin Panel in the Introduction Lecture of the Neurosurgery 2009 Course	Convert document to .swf & embed in Resources	Did not convert or embed	Fail	The conversion software currently being used only supports the conversion of PDF files. This can be remedied by using the doc2pdf converter first.
	Use Case 1: Upload Resource	Upload .ppt file in the Admin Panel in the Introduction Lecture of the Neurosurgery 2009 Course	Convert slides to .swf & embed in Resources	(local only) Converted & embedded successfully	Pass	This currently only works locally due to the lack of a dedicated server.
	Use Case 1: Upload Resource	Upload .pptx file in the Admin Panel in the Introduction Lecture of the Neurosurgery 2009 Course	Convert slides to .swf & embed in Resources	Did not convert or embed	Fail	The conversion software currently being used does not support the new version of Powerpoint files.
	Use Case 1: Upload Resource	Upload .mp3 file in the Admin Panel in the Introduction Lecture of the Neurosurgery 2009 Course	Rejects file upload	Rejects file upload	Pass	
2	Use Case 2: View Resource	Navigate to Resources Page of the Introduction	Student user views embedded resources	PPTs & Videos are viewed in	Pass	

		Lecture of the Neurosurgery 2009 Course & view resources		the page and PDFs can be opened in a new page		
3	Use Case 3: Change Settings	Change the "Background Color" entry under Settings in the Admin Panel to "#000000".	The entry is changed in the database and the corresponding CSS file is updated.	The entry is changed in the database but does not update the CSS file.	Fail	This can be corrected by using PHP code to call the database entries in the CSS files. We also recommend seriously looking at the CSS files because some overlap each other.
4	Use Case 4: Update About Us text	Change the "About Us" text entry under Settings in the Admin Panel to "Hello, My name is Joe.".	The entry is changed in the database and the About Us page is updated.	The entry is changed in the database and the About Us page is updated.	Pass	
5	Requirement: Toggle Resource Downloadability	Go into the database by hand and change the "downloadable" value for the syllabus resource.	Resources page only shows text and does not give a link for the syllabus resource.	Resources page only shows text and does not give a link for the syllabus resource.	Pass	Though this can only be done by hand in the database, this does show that the downloadability toggle works. This just now needs to be implemented in the UI when uploading a resource.
6	Login (new Login Bar)	Valid userid ("david@test.com"); Valid password ("SeniorDesign")	Bar Slides down & accepts data	Bar Slides down & accepts data	Pass	
	Login (new Login Bar)	Valid userid ("david@test.com"); Invalid password ("blah")	Bar slides down & rejects data	Bar slides down & rejects data	Pass	Though the system rejects the information,

						the notification is part of the webpage and not part of the login bar. We would recommend to find a way to include notification on the login bar.
	Login (new Login Bar)	Invalid userid ("david@m.com"); Invalid password ("blah")	Bar slides down & rejects data	Bar slides down & rejects data	Pass	Though the system rejects the information, the notification is part of the webpage and not part of the login bar. We would recommend to find a way to include notification on the login bar.
7	Non-user Course Syllabus View	Non-user clicks on "Neurology 2009" course to view details	Opens new page with associated pdf file.	Opens new page with associated pdf file.	Pass	
8	Product Vision Statement	Spell Check & Grammar Check	Returns with no errors or approved errors ("BoardsReview" is not a word but error is approved because it is our team name)	All errors are approved.	Pass	
	Product Vision Statement	Check if Headings are understandable and appropriate	Document is separated into parts labeled with appropriate headings	Document is separated into parts labeled with appropriate headings	Pass	
	Design Document	Spell Check & Grammar Check	Returns with no errors or approved errors ("BoardsReview" is not a word but error is	All errors are approved.	Pass	

		approved because it is our team name)			
Design Document	Check if all pictures have appropriate and understandable description	All pictures have captions with unique & appropriate descriptions.	All pictures have captions with unique & appropriate descriptions.	Pass	
Design Document	Check if Headings are understandable and appropriate	Document is separated into parts labeled with appropriate headings	Document is separated into parts labeled with appropriate headings	Pass	
Use Cases Document	Spell Check & Grammar Check	Returns with no errors or approved errors ("BoardsReview" is not a word but error is approved because it is our team name)	All errors are approved.	Pass	
Use Cases Document	Check if Headings are understandable and appropriate	Document is separated into parts labeled with appropriate headings	Document is separated into parts labeled with appropriate headings	Pass	
Test Document	Spell Check & Grammar Check	Returns with no errors or approved errors ("BoardsReview" is not a word but error is approved because it is our team name)	All errors are approved.	Pass	
Test Document	Check if Headings are understandable and appropriate	Document is separated into parts labeled with appropriate headings	Document is separated into parts labeled with appropriate headings	Pass	
All Documents	Check if all follow same labeling and same Header guidelines	All documents follow same guidelines	All documents follow same guidelines	Pass	