Unit 1   Login Page

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	1.001	Login page loads	Correct page loads	N/A	Login page loads and is appropriately displayed		
	1.002	Correct login: Student	Login with valid Student account and password.	Input Student email address and password	Student Welcome Page opens		
	1.003	Correct login: Instructor	Login with valid Instructor account and password.	Input Instructor email address and password	Instructor Welcome Page opens		
	1.004	Correct login: Program Administrator	Login with valid Program Administrator account and password	Input Program Administrator email address and password	Program Administrator Welcome Page opens		
	1.005	Correct login: System Administrator	Login with valid System Administrator account and password	Input System Administrator email address and password	System Administrator Welcome Page opens		
	1.006	Incorrect username login	User attempts to log in with invalid username	Input username	Error message stating that the username is incorrect is displayed		
	1.007	Incorrect password login	User attempts to log in with invalid password	Input password	Error message stating that the password is incorrect is displayed		
	1.008	New Account link clicked	A Student wishes to register a new account	User clicks "New Account"	Student Account Creation Page loads correctly		
	1.009	Forgot Password link clicked	A user wishes to receive their password via email	User clicks "Forgot Password"	Forgot Password Confirmation Page loads correctly		

		Login button clicked	A user wishes to log in	User clicks the "Login" button	If all fields are filled in and contain correct data, the user is logged in		
	1.010						
	= Summary of Tests for This Unit						

Unit 2   Forgot Password Pop-up

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	2.001	Forgot Password Page Pop Up	Forgot Password Page Pop Ups	N/A	Forgot Password page pop-ups and is appropriately displayed		
	2.002	Pop-up allows student to enter user name	Student must enter username to have password e-mailed	Input Student username	Password is e-mailed to the student		

Unit 3   Student Home Page

Note: Assume a Student has successfully logged in. A student refers to a Student user, or any user in the Student view.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	3.001	Student Home Page loads	Correct page loads	N/A	Student Home Page loads and is appropriately displayed		
	3.002	Home button clicked	A Student wishes to go to the Home Page	Student clicks the "Home" link	Student Home Page is loads and is appropriately displayed		

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	3.003	Gradebook button clicked	A Student wishes to view the Gradebook	Student clicks the "Gradebook" link	Student Gradebook is correctly reloaded		
	3.004	Current course clicked	A Student wishes to view the page of a particular current course	Student clicks a current course	Correct page is loaded for the selected course		
	3.005	Completed course clicked	A Student wishes to view the page of a particular completed course	Student clicks a completed course	Correct page is loaded for the selected course		
	3.006	Logout button clicked	A Student wishes to log out	Student clicks the logout button	The user is successfully logged out and redirected to the login screen		
	= Summary of Tests for This Unit						

Unit 4   System Administrator Home Page

Note: Assume the System Administrator has successfully logged in.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	4.001	System Administrator Home Page loads	Correct page loads	N/A	Student Home Page loads and is appropriately displayed		
	4.002	Home button clicked	The System Administrator wishes to go to the Home Page	System Administrator clicks the "Home" link	System Administrator Home Page is loads and is appropriately displayed		

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	4.003	Global Pool request button clicked	The System Administrator wishes to view Global Pool requests	System Administrator clicks the "Global Pool" link	Global Pool request page is correctly loaded		
	4.004	Change view	The System Administrator wishes to change view	Desired view selected	The System Administrator's view changes to the selected view		Views are selected from a drop-down menu
	4.005	Course clicked	The System Administrator wishes to view the page of a particular course	System Administrator clicks a course	Correct page is loaded for the selected course		
	4.006	Logout button clicked	The System Administrator wishes to log out	Student clicks the logout button	The user is successfully logged out and redirected to the login screen		
	= Summary of Tests for This Unit						

Unit 5 Program Administrator Home Page

Note: Assume a Program Administrator has successfully logged in. A Program Administrator refers to a Program Administrator user, or the System Administrator in the Program Administrator view.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	5.001	Program Administrator Home Page loads	Correct page loads	N/A	Program Administrator Home Page loads and is appropriately displayed		

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	5.002	Home button clicked	A Program Administrator wishes to go to the Home Page	Program Administrator clicks the "Home" link	Program Administrator Home Page is loads and is appropriately displayed		
	5.003	Course Pool request button clicked	A Program Administrator wishes to view the Course Pool requests	Program Administrator clicks the "Course Pool" link	Course Pool request page is loaded correctly		
	5.004	Current course clicked	A Program Administrator wishes to view the page of a particular course	Program Administrator clicks a course	Correct page is loaded for the selected course		
	5.005	Change view	A Program Administrator wishes to change view	Desired view selected	A Program Administrator's view changes to the selected view		Views are selected from a drop-down menu
	5.006	Logout button clicked	A Program Administrator wishes to log out	Program Administrator clicks the logout button	The user is successfully logged out and redirected to the login screen		
	= Summary of Tests for This Unit						

Unit 6   Instructor Home Page

Note: Assume an Instructor has successfully logged in. An Instructor refers to an Instructor user, or any user in the Instructor view.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	6.001	Instructor Home Page loads	Correct page loads	N/A	Instructor Home Page loads and is appropriately displayed		

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	6.002	Home button clicked	An Instructor wishes to go to the Home Page	Instructor clicks the "Home" link	Instructor Home Page is loads and is appropriately displayed		
	6.003	Gradebook clicked	An Instructor wishes to view the Gradebook	Instructor clicks the "Gradebook" link	Instructor Gradebook is correctly reloaded		
	6.004	Current course clicked	An Instructor wishes to view the page of a particular course	Instructor clicks a course	Correct page is loaded for the selected course		
	6.005	Change view	An Instructor wishes to change view	Desired view selected	The Instructor's view changes to the selected view		Views are selected from a drop-down menu
	6.006	Logout button clicked	An Instructor wishes to log out	Instructor clicks the logout button	The user is successfully logged out and redirected to the login screen		
	= Summary of Tests for This Unit						

Unit 7   Student Account Creation

Note: Assume student knows his/her first and last name and email address, and has then clicked on the "Submit" button.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	7.001	Student Account Creation page loads	Correct page loads	N/A	Student Account Creation page loads and is appropriately displayed		

		Enter accepted first name	Student enters first name with no illegal characters	Input first name	No illegal characters, the name is accepted		
	7.002						
		Enter unaccepted first name	Student enters first name with illegal characters	Input first name	Page reloaded with proper error message displayed		
	7.003						
		Enter accepted last name	Student enters last name with no illegal characters	Input last name	No illegal characters, the name is accepted		
	7.004						
		Enter unaccepted last name	Student enters last name with illegal characters	Input last name	Page reloaded with proper error message displayed		
	7.005						
		Enter accepted email address	Student enters a unique and valid email address with legal characters	Input email address	No illegal characters, the email address is valid. The address is accepted		
	7.006						
		Enter unaccepted email address	Student enters a non-unique email address or one that is invalid or contains illegal characters	Input email address	Page reloaded with proper error message displayed		
	7.007						
		Enter accepted password	Student enters a password of the proper length with no illegal characters	Input password	Password is compared to confirmation password		
	7.008						
		Enter unaccepted password	Student enters a password not of the proper length or containing illegal characters	Input password	Page reloaded with proper error message displayed		
	7.009						
		Confirm password correctly	Student retypes the password correctly	Input password	Confirmation password matches password and is accepted.		
	7.010						

Confirm password incorrectly	Student retypes the password incorrectly	Input password	Confirmation password does not match the password. Page reloaded with proper error message displayed.

7.011			

= Summary of Tests for This Unit

Unit 8

Student Account Created Pop-up

Note: A student has just successfully created an account and attempt to log in with it for the first time. Their information is entered and the "Continue" button is clicked.

Pass/Fail	Test Case Number		Step	Description	Action Needed	Expected Result	Observed Result	Comments
	8.001		Student Account Created Pop-up page loads	Correct page loads	N/A	Student Account Created Pop-up page loads and is appropriately displayed		
	8.002		Correct login	Log in with valid ID and password	Student enters ID and password	Student is logged in		
	8.003		Incorrect login	Student attempts to log in with an invalid ID or password	Student enters an invalid ID or password	Page reloaded with proper error message displayed		

Unit 9

Created Account – System Administrator

Pass/Fail	Test Case Number		Step	Description	Action Needed	Expected Result	Observed Result	Comments
	9.001		Account Created Pop-up page loads	Correct page loads	N/A	Account Created Pop-up page loads and is appropriately displayed		
	9.002		Create another account	The System Administrator wishes to create another account	"Create Another Account" Button clicked	The account create page loads correctly		
	9.003		Return to homepage	The System Administrator wishes to return to the homepage	"Return to Homepage" button clicked	The System Administrator homepage loads correctly		

Unit 10   Create User Account – System
Administrator

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	10.001	Account Creation page loads	Correct page loads	N/A	Account Creation page loads and is appropriately displayed		
	10.002	Enter accepted first name	System Administrator enters first name with no illegal characters	Input first name	No illegal characters, the name is accepted		
	10.003	Enter unaccepted first name	System Administrator enters first name with illegal characters	Input first name	Page reloaded with proper error message displayed		
	10.004	Enter accepted last name	System Administrator enters last name with no illegal characters	Input last name	No illegal characters, the name is accepted		
	10.005	Enter unaccepted last name	System Administrator enters last name with illegal characters	Input last name	Page reloaded with proper error message displayed		

	10.006	Enter accepted email address	System Administrator enters a unique and valid email address with legal characters	Input email address	No illegal characters, the email address is valid. The address is accepted		
	10.007	Enter unaccepted email address	System Administrator enters a non-unique email address or one that is invalid or contains illegal characters	Input email address	Page reloaded with proper error message displayed		
	10.008	Enter accepted password	System Administrator enters a password of the proper length with no illegal characters	Input password	Password is compared to confirmation password		
	10.009	Enter unaccepted password	System Administrator enters a password not of the proper length or containing illegal characters	Input password	Page reloaded with proper error message displayed		

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	10.010	Confirm password correctly	System Administrator retypes the password correctly	Input password	Confirmation password matches password and is accepted.		
	10.013	Confirm password incorrectly	System Administrator retypes the password incorrectly	Input password	Confirmation password does not match the password. Page reloaded with proper error message displayed.		
= Summary of Tests for This Unit							

Unit 11   Question Creation

Note: Assume a user has just clicked the "Submit" button.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	11.001	Question Creation page loads	Correct page loads	N/A	Question Creation page loads and is appropriately displayed		
	11.002	Enter acceptable question title	Question title contains no illegal characters	Input a question title	No illegal characters, question title is accepted		
	11.003	Enter unacceptable	Question title contains illegal	Input a question title	Page reloaded with proper error message displayed		

		question title	characters			
	11.004	Enter acceptable question	Question contains no illegal characters	Input a question	No illegal characters, question is accepted		
	11.005	Enter unacceptable question	Question contains illegal characters	Input a question	Page reloaded with proper error message displayed		
	11.006	Enter acceptable method signature	Method signature contains no illegal characters	Input a method signature	No illegal characters, method signature is accepted		
	11.007	Enter unacceptable method signature	Method signature contains illegal characters	Input a method signature	Page reloaded with proper error message displayed		
	11.008	Enter acceptable viewable test cases	Viewable test cases contain no illegal characters and are in the proper format	Input viewable test cases	No illegal characters and proper format, viewable test cases are accepted		
	11.009	Enter unacceptable viewable test cases	Viewable test cases contain illegal characters or are in an improper format	Input viewable test cases	Page reloaded with proper error message displayed		
	11.010	Enter acceptable hidden test cases	Hidden test cases contain no illegal characters and are in the proper format	Input hidden test cases	No illegal characters and proper format, hidden test cases are accepted		This field can be left blank
	11.011	Enter unacceptable hidden test cases	Hidden test cases contain illegal characters or are in an improper format	Input hidden test cases	Page reloaded with proper error message displayed		This field can be left blank
	11.012	Enter acceptable solution	Solution contains no illegal characters	Input a solution	No illegal characters, the solution is accepted		This field can be left blank

	11.013	Enter unacceptable solution	Solution contains illegal characters	Input a solution	Page reloaded with proper error message displayed		This field can be left blank
	11.014	Enter acceptable hints	Hints contain no illegal characters	Input hints	No illegal characters, the hints are accepted		This field can be left blank
	11.015	Enter unacceptable hints	Hints contain illegal characters	Input hints	Page reloaded with proper error message displayed		This field can be left blank
	11.016	Select a category	User selects a category	Click a category	Selected category is assigned to the question		The categories are check boxes
	11.017	Do not select a category	User neglects to select a category	N/A	Page reloaded with proper error message displayed		The categories are check boxes
	11.018	Select if recursion is required	User selects "Yes" or "No"	Click an option	If "Yes" the solution will require recursion; if "No" it will not		The options are check boxes
	11.019	Do not select if recursion is required	User fails to select "Yes" or "No"	N/A	Page reloaded with proper error message displayed		The options are check boxes
	11.020	Upload a file successfully	User uploads a valid file	User clicks "Browse" and selects a file	File is successfully uploaded		Uploading is optional
	11.021	Upload a file unsuccessfully	User uploads a file that is invalid	User clicks "Browse" and selects a file	Page reloaded with proper error message displayed		Uploading is optional
	= Summary of Tests for This Unit						

Unit 12   Student Question / Question Set Answer Page

Note: Assume a user has just finished answering a question and clicked on the "Run & Compile" Button

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	12.001	Solution Submission page loads correctly	Correct page loads	N/A	Solution Submission page loads and is appropriately displayed		
	12.002	Save code on submission	Verify test is saved in the database	Code submission	Code submission saved in the database		
	12.003	Student enters valid code	Validate text for legal characters	Code submission	No illegal characters		
	12.004	Student enters invalid code	Validate text for legal characters	Code Submission	Proper error message displayed		
	12.005	Student enters code that compiles	Compile submission using Java 1.6 Compiler	Code submission	No compilation errors		
	12.006	Student enters code that does not compile	Compile submission using Java 1.6 Compiler	Code submission	Proper compilation errors displayed		
	12.007	Student enters correct code	Run test cases through submission code	Code submission & Question Test Cases	Correct test case output is returned by code submission, all cases pass		
	12.008	Student enters incorrect code	Run test cases through submission code	Code submission & Question Test Cases	The student is notified as to whether or not specific test cases were passed or not		
	= Summary of Tests for This Unit						

Unit 13   Student - Gradebook

Note:

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	13.001	Student Grade book Page Loads Correctly	Correct page loads	N/A	Student Grade book page loads and is appropriately displayed		
	13.002	Student's completed assignments appear as hyper links	Students are able to navigate to completed assignments	Click on completed assignments	Student is naviagated to completed assignment		
	13.003	Home button clicked	A Student wishes to go to the Home Page	Student clicks the "Home" link	Student Home Page is loads and is appropriately displayed		
	13.004	Logout button is clicked	A Student wishes to logout	Student clicks the logout button	Student is logged out and redirected and to login page		

Unit 14   Admin Gradebook

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	14.001	Admin Grade book Page Loads Correctly	Correct page loads	N/A	Admin Grade book page loads and is appropriately displayed		
	14.002	Admin's assignments appear as hyper links	Admins are able to navigate to assignments	Click on completed assignments	Admin is naviagated to completed assignment		
	14.003	Home button clicked	An Admin wishes to go to the Home Page	Admin clicks the "Home" link	Admin Home Page is loads and is appropriately displayed		
	14.004	Logout button is clicked	An Admin wishes to logout	Admin clicks the logout button	Adminis logged out and redirected and to login page		
	= Summary of Tests for This Unit						

Unit 15   Instructor - Gradebook

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	15.001	Instructor Grade book Page Loads Correctly	Correct page loads	N/A	Instructor Grade book page loads and is appropriately displayed		
	15.002	Instructor's assignments appear as	Instructors are able to navigate to assignments	Click on completed assignments	Instructor is naviagated to completed assignment		

		hyper links					
	15.003	Home button clicked	A Instructor wishes to go to the Home Page	Instructor clicks the "Home" link	Instructor Home Page is loads and is appropriately displayed		
	15.004	Logout button is clicked	A Instructor wishes to logout	Instructor clicks the logout button	Instructor is logged out and redirected and to login page		
	= Summary of Tests for This Unit						

Unit 16   System Administrator Course Management

Note: Assume the system administrator knows the proper course title and course number

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	16.001	Course Management page loads	Correct page loads	N/A	Course Management page loads and is appropriately displayed		
	16.002	Edit a course	The System Administrator wishes to edit a course	The System Administrator clicks the 'Edit' button next to the appropriate course	The System Administrator is brought to a page where the course can be edited.		

		Remove a course	The System Administrator wishes to remove a course	The System Administrator clicks the 'Remove' button next to the appropriate course	The course is removed		
	16.003						
		New course	The System Administrator wishes to add a new course	The System Administrator click the 'New Course' button	The System Administrator is brought to a page where a new course can be created		
	16.004						
	= Summary of Tests for This Unit						

Unit 17   Course Creation Page

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	17.001	Course Creation page	Correct page loads	N/A	Course Creation page loads and is appropriately displayed		
	17.002	Course Name selection	Course Name is selected	Course Name is selected from a drop-down menu	Course Name is accepted		i.e. Intro to Computer Science
	17.003	Course Number selection	Course Number is selected	Course Number is selected from a drop-down menu	Course Number is accepted		i.e. CSIS-110

		Section Number selection	Course Section is selected	Course Section is selected from a drop-down menu	Section Number is accepted		i.e. 05
	17.004						
		Semester selection	Semester (Fall, Spring, or Summer) and the year are selected	Course Semester and year are selected from a drop-down menu	Semester/year are accepted		
	17.005						
		Create button clicked	User wishes to create the course	User clicks the "Create" button	The course is successfully created		
	17.006						
	= Summary of Tests for This Unit						

Unit 18   Instructor – Published Content Pool

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result
18.001	Published Content loads	Published Content loads	N/A	Published Question Sets are properly listed		
18.002	Filter by Date	Filter content by date added	Select Filter by Date	The Published Content list gets filtered by the date they were published		
18.003	Filter by Date Range	Filter content by the dates in the specified range	Select Filter by Date Range	The Published Content list gets filtered by the dates in the specified date range, beginning with the most recent		

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result
18.004	Filter by Type	Filter content by type	Select Filter by Type	The Published Content list gets filtered by the types of question sets		
18.005	Preview a Published Question Set	Preview a Published Question Set	Click Preview	A preview of the published question set is loaded in a pop-up window		
18.006	Edit a Published Question Set	Edit a published question set	Click Edit	Loads the Editing a Live Question Set page		
18.007	Unpublish a Question Set	Unpublish a question set	Click Unpublish	The question set gets unpublished and is removed from the published content list		

Unit 19   Instructor - My Pool

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result
19.001	My Pool content loads	My Pool content loads	N/A	My Pool content is loaded with all proper questions and question sets		
19.002	Choose Questions Tab	Choose Questions Tab	Click on Questions tab	Questions in My Pool are populated and listed		

19.003	Choose Question Sets Tab	Choose Question Sets Tab	Click on Question Sets tab	Question Sets in My Pool are populated and listed		
19.004	Filter by Date	Filter content by date added	Select Filter by Date	My Pool Content gets filtered by the date they were published		
19.005	Filter by Date Range	Filter content by the dates in the specified range	Select Filter by Date Range	My Pool content gets filtered by the dates in the specified date range, beginning with the most recent		
19.006	Filter by Type	Filter content by type	Select Filter by Type	My Pool Content gets filtered by the types of question sets or questions		
19.007	Publish content	Publish content	Click the publish button	Publishes the designated question or question set		
19.008	Preview content	Preview content	Click the preview button	Displays a preview of the designated question or question set in a pop-up window		
19.009	Delete content	Delete content	Click the delete button	Removes the designated question or question set from the content list		

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result
19.010	Global Pool Request	Global Pool Request	Click the Global Request button	A request is sent to the System Admin asking permission to move the designated question or question set to the Global Pool		
19.011	Course Pool Request	Course Pool Request	Click the Course Request button	A request is sent to the System Admin asking permission to move the designated question or question set to the Course Pool		

Unit 20   Instructor - Course Pool

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result
20.001	Course Pool content loads	Course Pool content loads	N/A	Course Pool content is loaded with all proper questions and question sets		
20.002	Global Pool tab	Choose Global Pool tab	Click on Global Pool tab	Questions/Sets in Global Pool are populated and listed		
20.003	My Pool tab	Choose My Pool tab	Click on My Pool tab	Question/Sets in My Pool are populated and listed		

20.004	Published Pool tab	Choose Published Pool tab	Click on Published Pool tab	Questions/Sets in Published Pool are populated and listed		
20.005	Edit	Instructor wishes to edit a question/set	Click "Edit"	Redirected to a page to edit the question/set		
20.006	Remove	Instructor wished to remove a question/set	Click "Remove"	The appropriate item is removed from the pool		
20.007	Preview content	Preview content	Click the question/set title	Displays a preview of the designated question or question set in a pop-up window		
20.008	Add to My Pool	Add to My Pool	Click Add to My Pool button	Adds the selected question or question set to My Pool		

Unit 21   Instructor - Global Pool

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result
21.001	Global Pool content loads	Global Pool content loads	N/A	Global Pool content is loaded with all proper questions and question sets		
21.002	Course Pool tab	Choose Course Pool tab	Click on Course Pool tab	Questions/Sets in Course Pool are populated and listed		
21.003	My Pool tab	Choose My Pool tab	Click on My Pool tab	Question/Sets in My Pool are populated and listed		
21.004	Published Pool tab	Choose Published Pool tab	Click on Published Pool tab	Questions/Sets in Published Pool are populated and listed		
21.005	Preview content	Preview content	Click the question/set title	Displays a preview of the designated question or question set in a pop-up window		
21.006	Add to My Pool	Add to My Pool	Click Add to My Pool button	Adds the selected question or question set to My Pool		

Unit 22   Question Set Creation
Note: "Create" button is clicked

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	22.001	Question Set Creation page loads	Correct page loads	N/A	Question Set Creation page loads and is appropriately displayed		
	22.002	Enter acceptable title	Name entered with no illegal characters.	Input title	No illegal characters, the name is accepted		
	22.003	Enter unaccepted name	Name entered with illegal characters	Input title	Page reloaded with proper error message displayed		
	22.004	Select a category	User selects a category	Desired category is clicked	The appropriate category is applied to the set		The categories are contained in a drop-down menu
	22.004	Select a type	User selects a type	Desired type is clicked	The appropriate type is applied to the set		The types are contained in a drop-down menu
	= Summary of Tests for This Unit						

Unit 23   Adding Question to Question Set

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	23.001	Question Set (Adding Questions) page loads	Correct page loads	N/A	Login page loads and is appropriately displayed		

		Question set(s) selected	User selects one or more question sets to add a question to	Question set clicked	The correct question is added to the appropriate set		Question sets are check-boxes
	23.002						
	23.003	Question set(s) not selected	User neglects to select a question set	N/A	Page reloaded with proper error message displayed		Question sets are check-boxes
	23.004	Pool selection	User chooses which pool to draw questions from	Pool clicked	Question area is populated with the appropriate questions		Pool are in a drop-down menu
	23.005	Question(s) selected	User selects one or more questions	Question clicked	The correct question is added to the appropriate set		Questions are check-boxes
	23.007	Question(s) not selected	User neglects to select a question	N/A	Page reloaded with proper error message displayed		
	23.008	Preview	User wished to preview a question	Appropriate preview button clicked	Question preview appears In a pop-up		
	23.009	Create question	User wishes to create a new question	"Add New Question" button is clicked	User is redirected to the appropriate Question Creation page		
	23.010	Add question	User adds a question to the set	A question is selected and the "Add Questions to Set" button is clicked	Question is added to the Question Set successfully		
	= Summary of Tests for This Unit						

Unit 24

Submitted Created Question Pop-up

Assume: A user has just created a question.

Pass/Fail	Test Case Number						
		Step	**Description**	**Action Needed**	**Expected Result**	**Observed Result**	**Comments**
	24.001	Submitted Created Question Pop-up page loads	Correct page loads	N/A	Submitted Created Question Pop-up page loads and is appropriately displayed		
	24.002	Create another question	User wishes to create another question	Click "Create Another Question" button	The Question Create screen loads correctly		
	24.003	Return to homepage	User wishes to return to their homepage	Click "Return to Homepage" button	The proper homepage loads correctly		

Unit 25   Question Set Publication

Pass/Fail	Test Case Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	25.001	Question Set Publication page loads	Correct page loads	N/A	Question Set Creation page loads and is appropriately displayed		

		Enter accepted time available	User enters time available in the proper format with no illegal characters.	Input time available	Time available is accepted		AM/PM is selected from a drop-down
	25.002	Enter unaccepted time available	User enters time available in an improper format or with illegal characters	Input time available	Page reloaded with proper error message displayed		AM/PM is selected from a drop-down
	25.003	Enter accepted date available	User enters date available in the proper format with no illegal characters	Input date available	Date available is accepted		
	25.004	Enter unaccepted date available	User enters date available in an improper format or with illegal characters	Input date available	Page reloaded with proper error message displayed		
	25.005	Enter accepted time due	User enters time due in the proper format with no illegal characters	Input time due	Time due is accepted		AM/PM is selected from a drop-down
	25.006	Enter unaccepted time due	User enters time due in an improper format or with illegal characters	Input time due	Page reloaded with proper error message displayed		AM/PM is selected from a drop-down
	25.007	Enter accepted date due	User enters date due in the proper format with no illegal characters	Input date due	Date due is accepted		
	25.008						

		Enter unaccepted date due	User enters date due in an improper format or with illegal characters	Input date due	Page reloaded with proper error message displayed		
	25.009						
		Enter accepted time limit	User enters time limit with no illegal characters	Input time limit	Time limit is accepted		Time limit is in minutes
	25.010						
		Enter unaccepted time limit	User enters time limit with illegal characters	Input time limit	Page reloaded with proper error message displayed		Time limit is in minutes
	25.011						
		Enter accepted number of attempts	User enters the number of attempts with no illegal characters	Input number of attempts	Number of attempts is accepted		
	25.012						
		Enter unaccepted number of attempts	User enters the number of attempts with illegal characters	Input number of attempts	Page reloaded with proper error message displayed		
	25.013						
		Allow Late Submissions	This option is selected if the user wishes to allow late submissions	The corresponding check-box is clicked	If checked, Students are allowed to submit questions beyond the due date.		Late submissions will be marked as such
	25.014						
		Viewable After Due Date	This option is selected if the user wishes for the question set to be viewable after it is due	The corresponding check-box is clicked	If checked, Students are allowed to view the question set after the due date and time		Late submissions are not allowed unless previously specified
	25.015						

		Links Allowed	This option is selected if the user wished to allow the Students to access links for the questions in the question set	The corresponding check-box is clicked	If checked, Students have access to any links that have been provided at the time of question creation		Links may not be provided
	25.016						
	25.017	Publish Set button clicked	User wishes to publish the question set	The "Publish Set" button is clicked	The question set is made available to Students in the section that the user is currently working under		
	= Summary of Tests for This Unit						

Unit 26   Editing Live Question

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	26.001	Editing Live Question page loads	Correct page loads	N/A	Editing Live Question page loads and is appropriately displayed		
	26.002	Enter acceptable question title	Question title contains no illegal characters	Input a question title	No illegal characters, question title is accepted and applied		
	26.003	Enter unacceptable question title	Question title contains illegal characters	Input a question title	Page reloaded with proper error message displayed		
	26.004	Enter acceptable question	Question contains no illegal characters	Input a question	No illegal characters, question is accepted and applied		

		Enter unacceptable question	Question contains illegal characters	Input a question	Page reloaded with proper error message displayed		
	26.005						
	26.006	Enter acceptable method signature	Method signature contains no illegal characters	Input a method signature	No illegal characters, method signature is accepted and applied		
	26.007	Enter unacceptable method signature	Method signature contains illegal characters	Input a method signature	Page reloaded with proper error message displayed		
	26.008	Enter acceptable viewable test cases	Viewable test cases contain no illegal characters and are in the proper format	Input viewable test cases	No illegal characters and proper format, viewable test cases are accepted and applied		
	26.009	Enter unacceptable viewable test cases	Viewable test cases contain illegal characters or are in an improper format	Input viewable test cases	Page reloaded with proper error message displayed		
	26.010	Enter acceptable hidden test cases	Hidden test cases contain no illegal characters and are in the proper format	Input hidden test cases	No illegal characters and proper format, hidden test cases are accepted and applied		This field can be left blank
	26.011	Enter unacceptable hidden test cases	Hidden test cases contain illegal characters or are in an improper format	Input hidden test cases	Page reloaded with proper error message displayed		This field can be left blank
	26.012	Enter acceptable solution	Solution contains no illegal characters	Input a solution	No illegal characters, the solution is accepted and applied		This field can be left blank
	26.013	Enter unacceptable solution	Solution contains illegal characters	Input a solution	Page reloaded with proper error message displayed		This field can be left blank

		Enter acceptable hints	Hints contain no illegal characters	Input hints	No illegal characters, the hints are accepted and applied		This field can be left blank
	26.014						
	26.015	Enter unacceptable hints	Hints contain illegal characters	Input hints	Page reloaded with proper error message displayed		This field can be left blank
	26.016	Select a category	User selects a category	Click a category	Selected category is assigned to the question and applied		The categories are check boxes
	26.017	Do not select a category	User neglects to select a category	N/A	Page reloaded with proper error message displayed		The categories are check boxes
	26.018	Select if recursion is required	User selects "Yes" or "No"	Click an option	If "Yes" the solution will require recursion; if "No" it will not. The change is then applied to the live set.		The options are check boxes
	26.019	Do not select if recursion is required	User fails to select "Yes" or "No"	N/A	Page reloaded with proper error message displayed		The options are check boxes
	26.020	Upload a file successfully	User uploads a valid file	User clicks "Browse" and selects a file	File is successfully uploaded		Uploading is optional
	26.021	Upload a file unsuccessfully	User uploads a file that is invalid	User clicks "Browse" and selects a file	Page reloaded with proper error message displayed		Uploading is optional
	= Summary of Tests for This Unit						

Unit 27   Editing Live Question Set

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result
27.001	Editing Live Question Set page loads	Editing Live Question Set page loads	N/A	Editing Live Question Set page loads with all content displayed		
27.002	Preview a Question	Preview a Question	Click on the Preview button	A preview of the question is displayed in a pop-up window		
27.003	Edit a Question	Edit a Question	Click on the Edit button	Directs you to the Question Creation page with all fields filled with the correct question information		
27.004	Change of Point Value	Correctly change the point value of a question	Type into the point change field	The new point value gets entered into the field		
27.005	Change Due Date	Change the Due Date of a question	Type into the Edit Due Date field	The new date gets entered into the field		
27.006	Change Time Limit	Change the Time Limit of a question	Type into the Edit Time Limit field	The new time limit for the question gets entered into the field		

27.007	Correct Update	Correct Update	Click the Update button	All new dates, point values and times entered into the fields get submitted.		
27.008	Incorrect Update	Incorrect Update	Click the Update button	Information in the fields are not properly entered and the update fails, not submitting the new data		
27.009	Save Offline	Save Offline	Click the Save Offline button	Saves a copy of the live question set with the new changes that is not live		

Unit 28   Account Management - Student

Assume: A Student wishes to change their password, and clicks the save button.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	28.001	Account Management Page loads	Correct page loads	N/A	Account Management Page loads and is appropriately displayed		
	28.002	Valid Old Password	The user must input their current password correctly	Input old password	Old password is correct and accepted		

		Invalid Old Password	The user inputs their current password incorrectly	Input old password	Old password is incorrect, the page is reloaded and appropriate error messages are displayed		
	28.003						
		Valid New Password	The user inputs a valid new password	Input new password	New password is valid and accepted		
	28.004						
		Invalid New Password	The user inputs an invalid new password	Input new password	New password is invalid, the page is reloaded and appropriate error messages are displayed		
	28.005						
		Valid Password Conformation	The user inputs the new password again correctly	Re-enter new password	The passwords match and accepted		
	28.006						
		Invalid Password Confirmation	The user fails to input the new password in correctly	Re-enter new password	The passwords do not match, the page is reloaded and appropriate error messages are displayed		
	28.007						
		Cancel	The user cancels the action	"Cancel and Return to Homepage" button is clicked	The proper homepage is loaded correctly		
	28.008						

Unit 29   Account Management - Instructor

Assume: An Instructor wishes to change their password, and clicks the save button.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	29.001	Account Management Page loads	Correct page loads	N/A	Account Management Page loads and is appropriately displayed		
	29.002	Valid Old Password	The user must input their current password correctly	Input old password	Old password is correct and accepted		
	29.003	Invalid Old Password	The user inputs their current password incorrectly	Input old password	Old password is incorrect, the page is reloaded and appropriate error messages are displayed		
	29.004	Valid New Password	The user inputs a valid new password	Input new password	New password is valid and accepted		
	29.005	Invalid New Password	The user inputs an invalid new password	Input new password	New password is invalid, the page is reloaded and appropriate error messages are displayed		
	29.006	Valid Password Conformation	The user inputs the new password again correctly	Re-enter new password	The passwords match and accepted		

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	29.007	Invalid Password Confirmation	The user fails to input the new password in correctly	Re-enter new password	The passwords do not match, the page is reloaded and appropriate error messages are displayed		
	29.008	Cancel	The user cancels the action	"Cancel and Return to Homepage" button is clicked	The proper homepage is loaded correctly		

Unit 30   Account Management – Program Administrator

Assume: A Program Administrator wishes to change their password, and clicks the save button.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	30.001	Account Management Page loads	Correct page loads	N/A	Account Management Page loads and is appropriately displayed		
	30.002	Valid Old Password	The user must input their current password correctly	Input old password	Old password is correct and accepted		
	30.003	Invalid Old Password	The user inputs their current password incorrectly	Input old password	Old password is incorrect, the page is reloaded and appropriate error messages are displayed		

		Valid New Password	The user inputs a valid new password	Input new password	New password is valid and accepted		
	30.004						
		Invalid New Password	The user inputs an invalid new password	Input new password	New password is invalid, the page is reloaded and appropriate error messages are displayed		
	30.005						
		Valid Password Conformation	The user inputs the new password again correctly	Re-enter new password	The passwords match and accepted		
	30.006						
		Invalid Password Confirmation	The user fails to input the new password in correctly	Re-enter new password	The passwords do not match, the page is reloaded and appropriate error messages are displayed		
	30.007						
		Cancel	The user cancels the action	"Cancel and Return to Homepage" button is clicked	The proper homepage is loaded correctly		
	30.008						

Unit 31   Account Management – System Administrator

Assume: A System Administrator wishes to change another user's password, and clicks the save button.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	31.001	Account Management Page loads	Correct page loads	N/A	Account Management Page loads and is appropriately displayed		
	31.002	Valid New Password	The user inputs a valid new password	Input new password	New password is valid and accepted		
	31.003	Invalid New Password	The user inputs an invalid new password	Input new password	New password is invalid, the page is reloaded and appropriate error messages are displayed		
	31.004	Valid Password Conformation	The user inputs the new password again correctly	Re-enter new password	The passwords match and accepted		
	31.005	Invalid Password Confirmation	The user fails to input the new password in correctly	Re-enter new password	The passwords do not match, the page is reloaded and appropriate error messages are displayed		
	31.006	Select User	The System Administrator selects a user to make changes to	Username is selected	The changes affect the selected user		Users are selected from a drop-down menu

		Delete	The System Administrator wishes to delete the selected user	"Delete Selected User" button is clicked	The user is removed from the system, however, records are preserved		
31.007							
31.008		Cancel	The user cancels the action	"Cancel and Return to Homepage" button is clicked	The proper homepage is loaded correctly		

Unit 32   Course Home Page - Student

Number	Test Case Name	Description	Input	Expected Result	Actual Result Comments	Test Result
32.001	Correct Home Screen loads	Correct Home Screen loads	N/A	Home Screen loads, all components are displayed including the Instructor color		
32.002	Incorrect Home Screen loads	Incorrect Home Screen loads	N/A	Home Screen loads, too little or too many components are displayed or the color is wrong		
32.003	Posts work	Posts work	Click on a Post	The chosen Post is viewed or		

	correctly	correctly		downloaded		
32.004	Posts work incorrectly	Posts work incorrectly	Click on a Post	The chosen Post is not displayed or can not be downloaded		
32.005	Clicks a course link	Clicks a course link	Click on a course link	The course home screen opens		

Units 33   Instructor and Admin Course Home Page

Note: Assume a user has successfully logged in.

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	33.001	Course Home Page loads	Correct page loads	N/A	Course Home Page loads and is appropriately displayed		
	33.002	Home button clicked	A User wishes to go to the Home Page	User clicks the "Home" link	User Home Page is loads and is appropriately displayed		
	33.003	Gradebook button clicked	A User wishes to view the Gradebook	User clicks the "Gradebok" link	User Gradebook is correctly reloaded		
	33.004	Assignment button is clicked	A User wishes to view the page of a particular current course	User clicks a current course	Correct page is loaded for the given course		
	33.005	Logout button is clicked	A User wishes to logout	User clicks the logout button	User is logged out and redirected and to login page		

Unit 34   Pool Management – Program Admin

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	34.001	Program Administrator page loads correctly	Correct page loads	N/A	Program Administrator Pool Management page loads and is appropriately displayed		
	34.002	Global Pool tab is clicked	The user wishes to view questions/question sets in the global pool	Click Global Pool tab	The user views questions/ question sets in the global pool		
	34.003	Course Pool tab is clicked	The user wishes to view questions/question sets in the course pool	Click Course Pool tab	The user views questions/ question sets in the global pool		
	34.004	Edit button	User wishes to edit a question/question set	Edit button clicked	The user is taken to the appropriate edit page		
	34.005	Remove button	User wishes to remove a question/question set	Remove button clicked	The appropriate question/question set is removed from the correct pool		
		= Summary of Tests for This Unit					

Unit 35   System Administrator Pool Management

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	35.001	System Administrator Pool Management page loads	Correct page loads	N/A	System Administrator Pool Management page loads and is appropriately displayed		
	35.002	Global Pool tab is clicked	The user wishes to view questions/question sets in the global pool	Click Global Pool tab	The user views questions/ question sets in the global pool		
	35.003	Edit button	User wishes to edit a question/question set	Edit button clicked	The user is taken to the appropriate edit page		
	35.004	Remove button	User wishes to remove a question/question set	Remove button clicked	The appropriate question/question set is removed from the correct pool		
	= Summary of Tests for This Unit						

Unit 36   Student Question Compile and Run

Note: Assume a user has just finished answering a question and clicked on the "Run & Compile" Button

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments

	36.001	Solution Submission page loads correctly	Correct page loads	N/A	Solution Submission page loads and is appropriately displayed		
	36.002	Save code on submission	Verify test is saved in the database	Code submission	Code submission saved in the database		
	36.003	Student enters valid code	Validate text for legal characters	Code submission	No illegal characters		
	36.004	Student enters invalid code	Validate text for legal characters	Code Submission	Proper error message displayed		
	36.005	Student enters code that compiles	Compile submission using Java 1.6 Compiler	Code submission	No compilation errors		
	36.006	Student enters code that does not compile	Compile submission using Java 1.6 Compiler	Code submission	Proper compilation errors displayed		
	36.007	Student enters correct code	Run test cases through submission code	Code submission & Question Test Cases	Correct test case output is returned by code submission, all cases pass		
	36.008	Student enters incorrect code	Run test cases through submission code	Code submission & Question Test Cases	The student is notified as to whether or not specific test cases were passed or not		
	= Summary of Tests for This Unit						

Unit 37

Student Save Question Pop-up
Assume: A student has just saved a question.

Pass/Fail	Test Case Number		Description	Action Needed	Expected Result	Observed Result	Comments
		Step	**Description**	**Action Needed**	**Expected Result**	**Observed Result**	**Comments**
	37.001	Student Save Question Pop-up page loads	Correct page loads	N/A	Student Save Question Pop-up page loads and is appropriately displayed		
	37.002	Go back to question	User wishes to return to the question that was just saved	Click "Go Back to Question" button	The Question Answer screen loads correctly		
	37.003	Return to homepage	User wishes to return to their homepage	Click "Return to Homepage" button	The proper homepage loads correctly		

Unit 38

Created Course Pop-up

Assume: The System Administrator has just created a course.

Pass/Fail	Test Case Number		Description	Action Needed	Expected Result	Observed Result	Comments
		Step	**Description**	**Action Needed**	**Expected Result**	**Observed Result**	**Comments**
	38.001	Created Course Pop-up page loads	Correct page loads	N/A	Created Course Pop-up page loads and is appropriately displayed		
	38.002	Create another course	System Administrator wishes to create another course	Click "Create Another Course" button	The Course Creation screen loads correctly		

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	38.003	Return to homepage	User wishes to return to their homepage	Click "Return to Homepage" button	The proper homepage loads correctly		

Unit 39   Approval for Global Pool Request

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	39.001	Approval Page loads	Correct page loads	N/A	Approval Page loads and is appropriately displayed		
	39.002	Clicks to Approve Requests	A Admin wishes to go to the View Request	Admin clicks "Global Pool Requests"	Requests are loaded and is appropriately displayed		
	39.003	Approval Button is clicked	Admin wishes to approve the question	Admin clicks the "Approve" button	Question is approved and moved in global pool		
	39.004	Deny button is clicked	Admin wishes to deny a question	Admin clicks the "Deny" button	Question is not put into pool and instructor is sent notice		

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	39.005	Logout button is clicked	An Admin wishes to logout	Admin clicks the logout button	Admin is logged out and redirected and to login page		

Unit 40   Approval for Course Pool Requests

Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	40.001	Approval Page loads	Correct page loads	N/A	Approval Page loads and is appropriately displayed		
	40.002	Clicks to Approve Requests	A Admin wishes to go to the View Request	Admin clicks "Pool Requests"	Requests are loaded and is appropriately displayed		
	40.003	Approval Button is clicked	Admin wishes to approve the question	Admin clicks the "Approve" button	Question is approved and moved in course pool		
	40.004	Deny button is clicked	Admin wishes to deny a question	Admin clicks the "Deny" button	Question is not put into pool and instructor is sent notice		
	40.005	Logout button is clicked	An Admin wishes to logout	Admin clicks the logout button	Admin is logged out and redirected and to login page		