

Testing Specifications for CS GradeBook

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I. Introduction

This document describes in detail all tests performed by the CS GradeBook team to ensure the quality of the CS GradeBook.

II. Base States

Name	BS-1: CS GradeBook is at the Login Page in the user's browser.
Preconditions	The user is connected to the internet with a working browser.
Steps	1. The user navigates to the website "www.cs.siu.edu/~csgradebook"
Expected Results	The CS GradeBook login page will open in the user's browser.

Name	BS-2: A user with a course account, such as cs306, is directed to the TA homepage upon login.
Preconditions	The CS GradeBook is opened in a browser and at the Login Page (BS-1). Tester knows the username and password of a course account.
Steps	1. Enter the user's username in the "Userid" field. 2. Enter the user's password in the "Password" field. 3. Click the "Log In" button.
Expected Results	The user is directed from the Login Page to the TA homepage.

Name	BS-3: A user with a student account is directed to the student homepage upon login.
Preconditions	The CS GradeBook is opened in a browser and is at the Login Page (BS-1). Tester knows the username and password of a student account.
Steps	1. Enter the user's username in the "Userid" field. 2. Enter the user's password in the "Password" field. 3. Click the "Log In" button.
Expected Results	The user is directed from the Login Page student homepage.

III. Test Cases

A. Login Test Cases

Name	TC-2: Verify that a user with a course account, such as cs306, is directed to the TA homepage.
Preconditions	The CS GradeBook is opened in a browser and is at the Login Page (BS-1). Tester knows the username and password of a course account.
Steps	1. Enter the user's username in the "Userid" field. 2. Enter the user's password in the "Password" field. 3. Click the "Log In" button.
Expected Results	The user is directed from the Login Page to the TA homepage.

Name	TC-3: Verify that a user with a student account is directed to the Student Homepage.
Preconditions	The CS GradeBook is opened in a browser and is at the Login Page (BS-1). Tester knows the username and password of a student account.
Steps	1. Enter the user's username in the "Userid" field. 2. Enter the user's password in the "Password" field. 3. Click the "Log In" button.
Expected Results	The user is directed from the Login Page to the student homepage.

Name	TC-1: Verify that a student whose userid starts with "cs" is sent to the student homepage and not the TA homepage.
Preconditions	The CS GradeBook is opened in a browser and is at the Login Page (BS-1). Tester knows the username and password of a student account that begins with the letters "cs".
Steps	1. Enter the username in the "Userid" field. 2. Enter the password in the "Password" field. 3. Click the "Log In" button.
Expected Results	The user is directed from the Login Page to the student homepage.

B. Logout Test Cases

Name	TC-4: Verify that a course account user already logged into the GradeBook can successfully log out.
Preconditions	BS-2. User can be on any TA page.
Steps	1. Click the "Logout" link.
Expected Results	The user is directed from their current page back to the Login Page.

Name	TC-5: Verify that a student user already logged into the GradeBook can successfully log out.
Preconditions	BS-3. User can be on any student page.
Steps	1. Click the “Logout” link.
Expected Results	The user is directed from their current page back to the Login Page.

C. Page Navigation Test Cases

Name	TC-6: Verify that a user logged into TA site can navigate to the “Create Submission” page.
Preconditions	BS-2
Steps	1. Click the “Create Submission” link.
Expected Results	The user is directed to the “Create Submission” page of the TA site.

Name	TC-7: Verify that a user logged into TA site can navigate to the “Gradebook” page.
Preconditions	BS-2
Steps	1. Click the “Gradebook” link.
Expected Results	The user is directed to the “Gradebook” page of the TA site.

Name	TC-8: Verify that a user logged into student site can navigate to the “Submit an Assignment” page.
Preconditions	BS-3.
Steps	1. Click the “Submit an Assignment” link.
Expected Results	The user is directed to the “Submit an Assignment” page of the student site.

Name	TC-9: Verify that a user logged into student site can navigate to the “Gradebook” page.
Preconditions	BS-3.
Steps	1. Click the “Gradebook” link.
Expected Results	The user is directed to the “Gradebook” page of the student site.

E. TA Site Functionality Test Cases

Name	TC-10: Verify that a user logged into the TA site can create a submission.
Preconditions	BS-2.
Steps	<ol style="list-style-type: none"> 1. Click the “Create Submission” link from the TA homepage. 2. Enter the name of the assignment in the “Assignment Name” field. 3. Select the due date of the assignment using the drop down menus for “Day”, “Month”, and “Year” or the calendar pop up. 4. Select the time the assignment is due using the “Time Due” drop

	down menu. 5. Click the “Submit” button.
Expected Results	The user has successfully created a new assignment directory in the correct class folder in the GradeBook’s file system. A file named “due_date.txt” is created containing the due date and time of the assignment. If this is the first assignment of the semester, a grades.csv file is initialized with the student userids and first assignment.

Name	TC-11: Verify that a user logged into the TA site can view, enter, and edit grades.
Preconditions	BS-2.
Steps	<ol style="list-style-type: none"> 1. Click the “Gradebook” link from the TA homepage. 2. Select the name of the assignment from the drop down menu and click submit. 3. Edit the value in the form fields to the right of each student’s userid to reflect their grade on the selected assignment. 4. Click the “Submit” button.
Expected Results	The modified field values should be stored in the correct assignment column and student row of the grades.csv file for the class.

F. Student Site Functionality Test Cases

Name	TC-12: Verify that a student is able to upload multiple files into the appropriate directory
Preconditions	BS-3
Steps	<ol style="list-style-type: none"> 1. Click on “Submit an Assignment” from the student homepage. 2. Select a class to submit to from the drop down menu. 3. Select an assignment to submit to from the drop down menu. 4. Select the files to submit for the assignment. 5. Click the “Submit” button.
Expected Results	A new directory is created beneath the assignment directory with the student’s userid and the current time. The student’s files are then copied to this directory.

Name	TC-13: Verify the student is able to view their grades for a class
Preconditions	BS-3
Steps	<ol style="list-style-type: none"> 1. Click on “Gradebook” from the student homepage. 2. Select the class to view grades for from the drop down menu. 3. Click the “Submit” button.
Expected Results	Grades for that student and the selected class are shown. If no grades exist, a message tells the student there are no grades yet.