

CSE 316 Group Project Test and Requirement Plan

<Guess Grade Web Page>

Team 1

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<Requirement>

Section 1: Home page

- Req 1-1: Every page but the sign up page shall identically provide a navbar which lets the user access 5 menu (Insert Grade, View Grade, Ask professor, and User Info).
- Req 1-2: The 2 input boxes on the right side shall get an input from the user for an e-mail address, and password.
- Req 1-3: The home page shall let the user make an account by going to the sign up page.
- Req 1-4: The home page shall let the user login if the user has already signed up.
- Req 1-5: The home page shall let the user logout if the user has logged in.
- Req 1-6: The home page shall provide information about the course, and brief explanation of the web site.

Section 2: Insert Grade page

- Req 2-1: The insert grade page shall provide boxes to let the user input one's own scores out of the total score of assignments, midterm and final exams, group project, and attendance.
- Req 2-2: The insert grade page shall provide a button to confirm and submit the scores user typed and link to the view grade page.
- Req 2-3: The insert grade page shall

Section 3: View grade page

- Req 3-1: The view grade page shall display four cards.
- Req 3-2: The first card shall display a chart of the standard deviation for the scores of the final exam.
- Req 3-3: The second card shall display a chart of the standard deviation for the scores of the midterm exam.
- Req 3-4: The third card shall display a chart of the standard deviation for the scores of the group project.
- Req 3-5: The fourth card shall display a chart of the standard deviation for the scores of the assignments.
- Req 3-6: Below four cards, the page displays the user's final score, final score in percentage, and anticipated letter grade.

Section 4: Ask professor page

- Req 4-1: The ask professor page shall display a card with information about the course instructor.
- Req 4-2: The card shall display a professor's picture on top of it.
- Req 4-3: The card shall display the name, email, office location, and office hour of the professor.
- Req 4-4: The ask professor page shall display a text input box which lets the user upload questions to the professor below the professor info card.

Req 4-5: The ask professor page shall display a submit button on the right of the text input box, and the clicking of the button shall save the user's text and display it to the question lists.

Req 4-6: The ask professor page shall display lists of questions below the text input box.

Req 4-7: The ask professor page shall display an 'X' button next to each question.

Section 5: User Info page

Req 5-1: The user info page shall display the user's information.

Req 5-2: The page shall display the user's profile image.

Req 5-3: The page shall display a "Change Image" button below the user's profile image, which links to a pop-up.

Req 5-4: The pop-up shall display the image input box and submit button.

Req 5-5: The page shall display the user's email address.

Req 5-6: The page shall display a "Change Password" button below the email address, which links to a pop-up.

Req 5-7: The pop-up shall display the old and new password input box and submit button.

Req 5-8: The page shall display the user's name.

Req 5-9: The page shall display a "Change Name" button below the user's name, which links to a pop-up.

Req 5-10: The pop-up shall display the text input box and submit button.

Section 6: Sign up page

Req 6-1: The sign up page shall display input boxes for the user's email address, password, password check, user name.

Req 6-2: The page shall display a dropdown menu for the user's academic year.

Req 6-3: The page shall display the FERPA Rules Agreement button which links to a pop-up with FERPA Rules.

Req 6-4: The page shall display a checkbox in order to conduct the user's agreement.

Req 6-5: The page shall display a 'Sign up' button.

<Test Plan>

Section 1: Home page

- **Test 1-1:** Verify navbar presence
 - **Requirements covered:** 1-1
 - **Description:** This test demonstrates the navigation functionality of the navbar to the home page and other pages to check for the navbar with 5 menu options.
 - **Actions:**
 - Step 1: Click 'Home Icon' menu on navbar
 - Step 2: Click 'Insert Grade' menu on navbar
 - Step 3: Click 'View Grades' menu on navbar
 - Step 4: Click 'Ask professor' menu on navbar
 - Step 5: Click 'User Info' menu on navbar
 - **Observed Results:**
 - Step 1: Verify it goes to 'Home Icon' page
 - Step 2: Verify it goes to 'Insert Grade' page
 - Step 3: Verify it goes to 'View Grades' page
 - Step 4: Verify it goes to 'Ask professor' page
 - Step 5: Verify it goes to 'User Info' page

- **Test 1-2:** Test account creation
 - **Requirements covered:** 1-4
 - **Description:** This test demonstrates the account creation by entering values into the ID and password fields on the home page, and navigating to the sign-up page.
 - **Actions:**
 - Step 1: Click the 'Sign up' button below the input field boxes.
 - Step 2: Show and Check the FERPA Rules agreement text.
 - Step 3: Type the e-mail address, password and check the checkbox.
 - Step 4: Click on the confirmation button.
 - **Observed Results:**
 - Step 1: Verify the button directs the user to the sign up page.
 - Step 2: Check the checkbox of the FERPA Rules agreement.
 - Step 3: no Observed Results
 - Step 4: Verify whether the form accepts the proper type of inputs.

- **Test 1-3:** Test login functionality
 - **Requirements covered:** 1-2, 1-3
 - **Description:** This test demonstrates the account login by entering existing account credentials and clicking the login button.
 - **Actions:**
 - Step 1: Type the ID and password in the input field boxes at the home page.
 - Step 2: Click the 'Sign in' button below the input field boxes.
 - **Observed Results:**
 - Step 1: no verification needed.
 - Step 2: Verify it accepts the right ID with password.
 - If it is not, alert the user the incorrect account
 - If it is, direct the user to the logged in home page.

- **Test 1-4:** Verify logout functionality
 - **Requirements covered:** 1-5
 - **Description:** This test demonstrates the functionality of the log out button. After logging in, click the logout button.
 - **Actions:**
 - Step 1: Click the 'Sign out' button at the left side of the home page.
 - **Observed Results:**
 - Step 1: Verify whether the page directs the user to the logged-out home page.

- **Test 1-5:** Verify course information display
 - **Requirements covered:** 1-6
 - **Description:** This test demonstrates the presence of contents at the home page and checks for the information section.
 - **Actions:**
 - Step 1: Click the 'Home Icon' menu on the navbar which links to the home page.
 - **Observed Results:**
 - Step 1: Verify there is displayed course information and a brief explanation about the website.

Section 2: Insert Grade page

- **Test 2-1:** Verify input fields for grades, attendance
 - **Requirements covered:** 2-1
 - **Description:** This test demonstrates whether the page accepts entered values into the input boxes for assignments, exams, project and attendance.
 - **Actions:**
 - Step 1: Type the user's scores of every assignment, exam, project and attendance.
 - **Observed Results:**
 - Step 1: no verification needed.

- **Test 2-2:** Verify confirmation button functionality
 - **Requirements covered:** 2-2
 - **Description:** This test demonstrates the functionality of entering scores and clicking the confirm button.
 - **Actions:**
 - Step 1: Press the confirm button before input all scores.
 - Step 2: Press the confirm button after input all scores.
 - Step 3: - (no action needed)
 - **Observed Results:**
 - Step 1: Verify the "Please fill out all input fields before confirming." pop-up appears.
 - Step 2: Verify the submission success pop-up appears.
 - Step 3: Verify the page links to the 'View Grades' page automatically.

Section 3: View Grades page

- **Test 3-1:** Verify the page display of four cards with a chart of standard deviation.
 - **Requirements covered:** 3-1, 3-2, 3-3, 3-4, 3-5
 - **Description:** Navigate to the View Grades page. Four cards and a summary of the user's final grades are displayed.
 - **Actions:**
 - Step 1: Click the 'View Grades' menu on the navbar.
 - Step 2: - (no action needed)
 - Step 3: - (no action needed)
 - Step 4: - (no action needed)
 - Step 5: - (no action needed)

- Step 6: - (no action needed)
 - **Observed Results:**
 - Step 1: Verify it goes to 'View Grades' menu page
 - Step 2: Verify four cards appear.
 - Step 3: Verify the first card displays Std. dev graph of final exam.
 - Step 4: Verify the second card displays Std. dev chart of midterm.
 - Step 5: Verify the third card displays Std. dev chart of group project.
 - Step 6: Verify the fourth card displays Std. dev graph of assignments.
- **Test 3-2:** Verify the page displays the summary of the user's scores.
 - **Requirements covered:** 3-6
 - **Description:** Check the bottom of the page. The final score, final percentage score and anticipated letter grade are displayed.
 - **Actions:**
 - Step 1: - (no action needed)
 - Step 2: - (no action needed)
 - **Observed Results:**
 - Step 1: Verify the page displays the user's final score and final percentage score below the four cards.
 - Step 2: Verify the page displays the user's anticipated letter grade below the four cards.

Section 4: Ask professor page

- **Test 4-1:** Verify professor information card display
 - **Requirements covered:** 4-1, 4-2, 4-3
 - **Description:** Navigate to the Ask professor page. The card with professor information is displayed.
 - **Actions:**
 - Step 1: Click 'Ask professor' menu on navbar
 - Step 2: - (no action needed)
 - **Observed Results:**
 - Step 1: Verify it goes to 'Ask professor' menu page
 - Step 2: Verify a card with professor's information appears
- **Test 4-2:** Verify question submission
 - **Requirements covered:** 4-4, 4-5, 4-6

- **Description:** Enter a question and click the submit button. The question is saved and appears in the question list.
 - **Actions:**
 - Step 1: Enter a question to the text input box.
 - Step 2: Click the submit button.
 - **Observed Results:**
 - Step 1: Verify the text appear well and be submitted well
 - Step 2: Verify the user's text appears in the question list.
- **Test 4-3: Verify question deletion**
 - **Requirements covered:** 4-7
 - **Description:** Click the 'X' button next to the question text in the question list. The question is deleted and disappears in the question list. A pop up appears which notifies the user that the question has been deleted.
 - **Actions:**
 - Step 1: Click an 'X' button next to the question text.
 - **Observed Results:**
 - Step 1: Verify the pop-up appears which notifies the user that the question has been deleted.
 - Step 2: Verify the deleted question disappears from the question list.

Section 5: User Info page

- **Test 5-1: Verify the user information and change buttons displayed**
 - **Requirements covered:** 5-1, 5-2, 5-3, 5-5, 5-6, 5-8, 5-9
 - **Description:** Go to the My profile page. The page shall display the user's email address, password, name and buttons to change image, password, and name.
 - **Actions:**
 - Step 1: Click 'my profile' menu on navbar
 - Step 2: - (no action needed)
 - Step 3: - (no action needed)
 - **Observed Results:**
 - Step 1: Verify it goes to 'my profile' menu page.
 - Step 2: Verify the page displays email address, name, image of the user.
 - Step 3: Verify the page displays the "Change Image", "Change Password", and "Change Name" buttons.

- **Test 5-2:** Verify pop-up for changing Image
 - **Requirements covered:** 5-4, 5-7, 5-10
 - **Description:** Click on the “Change Image” button. The pop-up opens with an image input box and a submit button.
 - **Actions:**
 - Step 1: Click the “Change Image” button.
 - Step 2: Select Image and click the submit button.
 - Step 3: Click the close button.
 - Step 4: Click the “Change Password” button
 - Step 5: Type old and new password into text input boxes and click the submit button.
 - Step 6: Click the close button.
 - Step 7: Click the “Change Name” button.
 - Step 8: Type new name and click the submit button.
 - Step 9: Click the close button.
 - **Observed Results:**
 - Step 1: Verify a pop-up opens with an image input box and submit button.
 - Step 2: Verify the submission success alert is popped.
 - Step 3: Verify the pop-up is closed.
 - Step 4: Verify a pop-up opens with an old and new password input box and submit button.
 - Step 5: Verify the submission success alert is popped.
 - Step 6: Verify the pop-up is closed.
 - Step 7: Verify a pop-up opens with a text input box and submit button.
 - Step 8: Verify the submission success alert is popped.
 - Step 9: Verify the pop-up is closed.

Section 6: Sign up page

- **Test 6-1:** Verify the text input box for sign-up works.
 - **Requirements covered:** 6-1
 - **Description:** Text input boxes test.
 - **Actions:**
 - Step 1: Input email address into email input box.
 - Step 2: Input password into password and password check input box.
 - Step 3: Type username into username input box.
 - **Observed Results:**

- Step 1: -
 - Step 2: pop-up if password and password check do not match.
 - Step 3: -

- **Test 6-2:** Verify a dropdown menu for the user's academic year works.
 - **Requirements Covered:** 6-2
 - **Description:** dropdown menu test.
 - **Action:**
 - Step 1: Click the dropdown menu.
 - Step 2: Click each academic year.
 - **Observed Results:**
 - Step 1: Verify the four academic years appear (Freshman, Sophomore, Junior, and Senior).
 - Step 2: Verify each academic year option selected.

- **Test 6-3:** The FERPA Rule pop-up button
 - **Requirements Covered:** 6-3
 - **Description:** The FERPA Rules pop-up appears.
 - **Action:**
 - Step 1: Click the 'FERPA Rules Agreement' button.
 - Step 2: Click the close button.
 - **Observed Results:**
 - Step 1: verify a pop-up with FERPA Rules on it appears.
 - Step 2: Verify the pop-up closed.

- **Test 6-4:** Agreement checkbox test.
 - **Requirements Covered:** 6-4
 - **Description:** The FERPA Rules checkbox test.
 - **Action:**
 - Step 1: Click the checkbox.
 - **Observed Results:**
 - Step 1: Verify the checkbox is checked if clicked.

- **Test 6-5:** Submit button test.
 - **Requirements Covered:** 6-5
 - **Description:** Click the Submit button and the submission success message pops up. If all required fields are not filled, block the signing up and pop up a warning message.
 - **Action:**
 - Step 1: Not fill all the fields and click the submit button.
 - Step 2: Fill all the fields and click the submit button.
 - **Observed Results:**
 - Step 2: A warning message pops up and submission fails.
 - Step 2: A success message pops up and submission succeeds.