

CSE 316 Final Project Test Plan

Team 4

Hyeseong Bak, Sanghyun Jun

Computer Science and Engineering, Stony Brook University at SUNY Korea

CSE 316.90: Fundamentals of Software Development

Professor Antonino Mione

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Test 1: Test Navigation Bar (Large Screen) Functionalities

Requirements Covered:

- 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-15, 1-16, 1-17, 1-18, 1-19, 1-20

Description:

This test ensures that the navigation bar on large screens displays the correct structure for guests, member users, and admin users. Also, it ensures that the navigation bar responds to hover, links to correct pages, and displays appropriate alerts for unauthorized access.

(Guest)

Steps	Expected Behaviors
Verify the navigation bar displays CO;DERS US, GALLERY, MEMBERS, ANNOUNCEMENT, and LOGIN.	Only the specified items are visible to guest users.
Hover over each menu on the navigation bar.	Each menu item and dropdown option hovered darkens.
Click CO;DERS US	Home Screen Page is displayed.
Click GALLERY	Gallery Page is displayed
Hover over MEMBERS.	Dropdown appears immediately, showing Executives and Advisory Committee.
Hover over MEMBERS, then click Executives	Executives page is displayed
Hover over MEMBERS, then click Executives Advisory Committee	Advisory Committee page is displayed
Click ANNOUNCEMENT	Alert: “You have to sign in first in order to access the page! Navigating...”, Login Page is displayed.
Click LOGIN.	Login page is displayed.

(Member)

Steps	Expected Behaviors
Verify the navigation bar displays CO;DERS US, GALLERY, MEMBERS, ANNOUNCEMENT, LOGIN, and a user icon	Only the specified items are visible to member users.
Click “CO;DERS US”	Home Screen Page is displayed.
Click GALLERY	Gallery Page is displayed
Hover over MEMBERS.	Dropdown appears immediately, showing Executives and Advisory Committee.
Hover over MEMBERS, then click Executives	Executives page is displayed
Hover over MEMBERS, then click Executives Advisory Committee	The Advisory Committee page is displayed
Click ANNOUNCEMENT	The announcement page is displayed.
Click User Icon	My Information page is displayed
Click LOGOUT on pages that do not require authentication, such as Home Screen Page, Executives Page, Advisory Committee Page, and Gallery Page.	Alert: “Logout successful!” Home Screen Page is displayed.
Click LOGOUT on pages that do require authentication, such as the Announcement Page, and My Information Page.	Alert 1: “Logout successful!” Alert 2: “You have to sign in first in order to access the page! Navigating...” Home Screen Page is displayed.

(Admin)

Steps	Expected Behaviors
Verify the navigation bar displays CO;DERS US, ADMIN, GALLERY, MEMBERS, ANNOUNCEMENT, LOGOUT, and a user icon	Only the specified items are visible to admin users.
Click “CO;DERS US”	Home Screen Page is displayed.
Hover over ADMIN	Dropdown appears immediately, showing Edit Announcements, Edit Gallery, Manage Accounts.
Hover over ADMIN, then click EDIT ANNOUNCEMENT	Edit Announcement page is displayed
Hover over ADMIN, then click EDIT GALLERY	Edit Gallery page is displayed
Hover over ADMIN, then click MANAGE ACCOUNTS	Edit Manage Accounts page displayed
Click GALLERY	Gallery Page is displayed
Hover over MEMBERS	Dropdown appears immediately, showing Executives and Advisory Committee
Hover over MEMBERS, then click Executives	Executives Page is displayed.
Hover over MEMBERS, then click Advisory Committee	The Advisory Committee page is displayed.
Click ANNOUNCEMENT	Announcement page is displayed.
Click LOGOUT on pages that do not require authentication, such as Home Screen Page, Executives Page, Advisory Committee Page, and Gallery Page.	Alert: “Logout successful!” Home Screen Page is displayed.
Click LOGOUT on pages that do require authentication, such as Announcement Page, Edit Announcement Page, Edit Gallery Page, Manage accounts Page and My Information Page.	Alert 1: “Logout successful!” Alert 2: “You have to sign in first in order to access the page! Navigating...” Home Screen Page is displayed.

Click User Icon	My Information page is displayed
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Test 2: Test Navigation Bar (Small Screen) Functionalities.

Requirements Covered:

- 2-1, 2-2, 2-3, 2-4

Description:

This test ensures that the navigation bar on small screens displays the correct structure for guests, member users, and admin users. Also, it ensures that the navigation bar responds to hover, links to correct pages, and displays appropriate alerts for unauthorized access.

(Guest, Member)

Steps	Expected Behaviors
Make the screen width less than 800 pixels (inclusive).	All menus except for 'CO;DERS' US are hidden. Instead, a menu toggle icon (hamburger icon) appears. 'CO;DERS US' remains its position on the left, and the menu toggle icon is positioned on the right.
Click the menu toggle icon	The navigation menu shall expand vertically, showing all menu options based on the authentication state.
Click each navigation menu.	All elements should function the same as the navigation bar on a large screen (test 1).
Click the menu toggle icon again.	The expanded menu options are hidden again.

(Admin)

Steps	Expected Behaviors
Make the screen width less than 800 pixels (inclusive).	All menus except for 'CO;DERS US' are hidden. Instead, a menu toggle icon(hamburger icon) appears.
Click the menu toggle icon	The navigation menu shall expand vertically, showing all menu options based on the authentication state. With an administrator account, it now has the "ADMIN" menu on top of the "GALLERY" menu.
Hover over the "ADMIN" menu.	A drop-down menu appears. This contains "Edit Announcement", "Edit Gallery", and "Manage Accounts" on top of the "GALLERY" menu.
Click each navigation menu.	All elements should function the same as the navigation bar on a large screen (test 1).
Click the menu toggle icon again.	The expanded menu options are hidden again.

Test 3: Home Screen Page

Requirements Covered:

- 3-1, 3-2

Description:

This test verifies the accessibility of the Home Screen Page, correct display of general club information, and responsiveness across screen sizes.

(Guest, Member, Admin)

Steps	Expected Behaviors
Access to the Home Screen Page	The Home Screen Page is displayed successfully and shows general club information.
Scroll up and down the page.	All elements remain fully visible and accessible without any horizontal scrolling.

Test 4: Executives Page

Requirements Covered:

- 4-1, 4-2, 4-4, 4-5, 4-6, 4-7

Description: This test verifies that the Executives Page functions correctly for both guest and logged-in users (members and admins). The page should display a list of executives with their names, images, and roles.

(Guest)

Steps	Expected Behaviors
Access the Executives Page	Executives Page is displayed successfully and shows the list of executives with their names, images, and their roles. If the executive photo has not been uploaded, a default image is displayed.
Click 'Contact info' below each executive's role.	Alert: "You must login first to see detailed contact information!"
Scroll up and down the page.	All elements remain fully visible and accessible without any horizontal scrolling.

(Member, Admin)

Steps	Expected Behaviors
Access the Executives Page	Executives Page is displayed successfully and shows the list of executives with their names, images, and their roles. If the executive photo has not been uploaded, a default image is displayed.
Click 'Contact info' below each executive's role.	Contact info dialog is displayed. This dialog contains executives' contact information, including phone number and e-mail address.
Click "X" icon in the top right	Closes the dialog.
Scroll up and down the page.	All elements remain fully visible and accessible without any horizontal scrolling.

Test 5: Advisory Board Page

Requirements Covered:

- 5-1, 5-2

Description: This test ensures that this page verifies public access to the Advisory Board Page and displays information about joining an advisory board.

(Guest, Member, Admin)

Steps	Expected Behaviors
Access the Advisory Board Page.	The Advisory Board Page is displayed successfully and shows information about joining an advisory board.
Scroll up and down the page.	All elements remain fully visible and accessible without any horizontal scrolling.

Test 6: Login Page

Requirements Covered:

- 6-1, 6-2, 6-3, 6-4, 6-5, 6-6, 6-7, 6-8

Description: This test ensures that guest users can access and use the login form, receive appropriate alerts for errors, and be navigated to the Welcome Page on successful login. For logged-in users, they should be rejected and navigated to the Home Screen Page.

(Guest)

Steps	Expected Behaviors
Access the Login Page.	The login page is displayed
Attempt to log in with an empty ID field or empty Password field.	The system avoids the form submission.
Attempt to log in with incorrect ID	Alert: “Invalid ID or password”
Attempt to log in with an incorrect Password	Alert: “Invalid ID or password”
Attempt to log in with valid credentials.	“Login successful! Welcome!” and then navigates the member to the “Welcome Page” .
Click the ‘Sign up Now’ link	The Sign Up page is displayed.

(Member, Admin)

Steps	Expected Behaviors
Access the Login Page.	“Already logged in! Navigating...” and navigate the member to the Home Screen Page.

Test 7: Welcome Page

Requirements Covered:

- 7-1, 7-2, 7-3, 7-4

Description: This test confirms access to the Welcome Page, greeting message display, and the redirection link to the Home Screen Page for logged-in users.

(Member, Admin)

Steps	Expected Behaviors
Access the Welcome.	The welcome page is displayed
Verify greeting messages.	Displays: <i>“Welcome back, <User Name>”</i>
Click the “Click Here to go home” link.	Navigate to the Home Screen Page.

(Guest)

Steps	Expected Behaviors
Access the Welcome Page.	Alert: <i>“You have to sign in first in order to access the page! Navigating...”</i> , login page is displayed.

Test 8: Sign-Up Page

Requirements Covered:

- 8-1, 8-2, 8-3, 8-4, 8-5, 8-6, 8-7, 8-8, 8-9

Description: This test ensures full functionality of the sign-up form, covering duplicate ID checks, validation of input fields, and proper error messages for guests.

(Guest)

Steps	Expected Behaviors
Access the Sign-Up Page.	Sign Up page is displayed
Click the “Sign up” button with missing fields.	The web application avoids the form submission.
Click the “Sign up” button with the already used ID.	Alert: “<i>Member ID already exists</i>”
Click the “Sign up” button with mismatched passwords.	Alert: “<i>Confirm password is not the same as password</i>”
Click the “Sign up” button with an invalid email format.	The web application avoids the form submission.
Click the “Sign up” button without making any invalid input that passes the validation process.	Alert: “<i>Sign up successful! Try logging in with the account!</i>” , the Login Page is displayed.

(Member, Admin)

Steps	Expected Behaviors
Access the Sign-Up Page.	Alert: “<i>Already logged in! Navigating...</i>” , Home Screen Page is displayed.

Test 9: Announcement Page

Requirements Covered:

- 9-1, 9-2, 9-3

Description: This test verifies the functionality of the Announcement Page for different authentication statuses.

(Member, Admin)

Steps	Expected Behaviors
Access the Announcement Page	Announcement Page is displayed
Verify the default message if no announcements are posted.	Displays “No Announcements Yet” with empty content.

(Guest)

Steps	Expected Behaviors
Access the Announcement Page	Alert: <i>“You have to sign in first in order to access the page! Navigating...”</i> , Login Page is displayed.

Test 10: Gallery Page

Requirements Covered:

- 10-1, 10-2

Description: This test verifies that the Gallery Page is accessible to all users, including guests, members, and admins. The page should display a series of images related to club activities.

(Guest, Member, Admin)

Steps	Expected Behaviors
Access the Gallery Page	The gallery page is displayed and shows a series of images related to club activities.
Scroll up and down the page.	All elements remain fully visible and accessible without any horizontal scrolling.

Test 11: My Information Page

Requirements Covered:

- 11-1, 11-2, 11-3, 11-4, 11-5, 11-6, 11-7, 11-8, 11-9, 11-10, 11-11, 11-12, 11-13, 11-14, 11-15, 11-16, 11-17, 11-18, 11-19

Description: This test verifies the behavior of the My Information Page for different authentication statuses: members, admins, and guests. It focuses on ensuring proper access control, smooth operation of edit functionalities, and validation of user input across various fields.

(Member, Admin)

Steps	Expected Behaviors
Access the My Information Page.	My Information page is displayed. This displays the user's personal information.
Click the "Edit" button on each information block.	Modification dialog opens for editing.
Click the "X" icon in the upper corner of the dialog	Modification dialog closed without saving.
Open dialogs for each field then click the "Save Changes" button with appropriate input.	Alert: "<i>Changed Successfully</i>" , Modification dialog is closed and immediately updated.
Click the "Save Changes" button with empty content.	Alert: "<i>Please fill out every input.</i>" , and reject the element.
Click the "Save Changes" button with the same value to the current value	Alert: "<i>Please insert a new <info type></i>" and reject the element
Click the "Close" button.	Modification dialog closed without saving.
Repeat the process for all fields.	The behavior of the web application is consistent for all fields.
In the modification dialog for email, Enter the invalid email format.	Error message appears below the input section: "<i>Please enter a valid email address</i>"
In the modification dialog for email, Click the "Save Changes" button with invalid email format.	Alert: "<i>Please enter a valid email address</i>" , and reject the element

In the modification dialog for phone numbers, Enter the nonvalid phone number format.	Error message appears below the input section: <i>“Invalid phone number format. Use 010-1234-5678”</i>
In the modification dialog for phone number, Click the “Save Changes” button with invalid phone number format.	Alert: “Please enter a valid phone number (e.g., 010-1234-5678).”
In the modification dialog for the image, in case the user already has a profile image -> Click the “Save Changes” button with empty content.	Alert: “Image removed successfully!” , and immediately removed.
In the modification dialog for the image, in case of the user default profile image -> Click the “Save Changes” button with empty content.	Alert: “Image removed successfully!” , and no changes
In the modification dialog for image, try to select non-image file(ex. pdf)	Cannot access non-image files.
In the modification dialog for password, Click the “Save Changes” button with incorrect original password	Alert: “Old password is not correct” , and reject the input
In In the modification dialog for password, Enter the same password as the old password in the new password section.	Error message appears below the input section: <i>“The new password cannot be the same as the old password”</i>

(Guests)

Steps	Expected Behaviors
Access the My Information Page	Alert: <i>“You have to sign in first in order to access the page! Navigating to the Login Page...”</i> , Login Screen Page is displayed.

Test 12: Edit Gallery Page

Requirements Covered:

- 12-1, 12-2, 12-3, 12-4, 12-5, 12-6, 12-7, 12-8, 12-9, 12-10

Description: This test verifies the Edit Gallery Page's behavior, focusing on image management features such as adding and removing images. It also validates access control, ensuring only admin users can access the page and perform gallery modifications.

(Admin)

Steps	Expected Behaviors
Access the Edit Gallery Page.	Edit Gallery Page is displayed with an alert: <i>“Clicking the Remove button will delete images without additional confirmation.”</i>
Click the “Add Image” button.	The image insertion dialog opens.
In the dialog, click the “Discard” button.	Image insertion dialog closed without saving.
In the dialog, click the “X” icon in the upper corner of the dialog.	Image insertion dialog closed without saving.
Click the “Remove” button.	Alert: “Image deleted successfully” The image was deleted and immediately updated.
In the dialog, click the “Save” button without an uploaded image.	Alert: “Please select an image file.” , and reject the file.
In the dialog, click the “Save” button with a valid image file.	Alert: “Image added successfully!” , Image insertion dialog closed and immediately updated.

(Member)

Steps	Expected Behaviors
Access the Edit Gallery Page.	Alert: “Only executives can access this page! Navigating to the Home Screen...” , Home Screen Page is displayed.

(Guest)

Steps	Expected Behaviors
Access the Edit Gallery Page.	Alert: <i>“You have to sign in first in order to access the page! Navigating...”</i> and navigate the guest to the “Login Page” .

Test 13: Manage Accounts Page

Requirements Covered:

- 4-3, 13-1, 13-2, 13-3, 13-4, 13-5, 13-6, 13-7, 13-8, 13-9, 13-10, 13-11, 13-12, 13-13, 13-14

Description: Ensure proper access control and functionality of the Manage Accounts Page for different user roles.

(Admin)

Steps	Expected Behaviors
Access the Manage Accounts Page.	<p>Alert: <i>“Pressing the ‘Remove’ button or altering a member’s role will immediately be updated to the database without additional confirmation.”</i></p> <p>The Manage Accounts page is displayed excluding the logged in Admin account.</p>
- (Logged in : Chief Executive Manager) Select other member’s position from non-executive(0) to Chief Executive Manager(2)	Alert: <i>“Cannot change directly from non-Executive member to Chief Executive Manager.”</i>
- (Logged in : Chief Executive Manager) Select other member’s position from Executive Manager(1) to Chief Executive Manager(2)	Alert: <i>“You have been demoted to Executive Manager”, and Alert again: “Position updated to ‘Chief Executive Manager’”</i>
- (Logged in : Executive Manager) Select Executive Manager(1) ‘s position	Alert: <i>“You can only modify the position of someone with a lower rank than you.”</i>
- (Logged in : Executive Manager) Select Executive Manager(2) ‘s position	Alert: <i>“You can only modify the position of someone with a lower rank than you.”</i>
- (Logged in : Executive Manager) Select other member’s position from non-executive(0) to Chief Executive Manager(2)	Alert: <i>“Cannot change directly from non-Executive member to Chief Executive Manager.”</i>
Click “Remove” on a Chief Executives Manager’s profile	Alert: <i>“Cannot delete a Chief Executive”</i>
Verify default message if no members exist	Displays "No Members Registered Yet."

Change a member's position using the dropdown successfully without any errors.	Alert: “<i>Position updated to ‘<position>’</i>”. The position is updated immediately without requiring confirmation. This update will also affect the Executives Page when a user's role has changed from Executives to different positions, or different positions to Executives.
Click "Remove" on a member's profile.	Member deletion is immediately updated with Alert: “<i>Member has been removed</i>”

(Member)

Steps	Expected Behaviors
Access the Manage Accounts Page.	Alert: “<i>Only executives can access this page! Navigating to the Home Screen...</i>” , Home Screen Page is displayed.

(Guest)

Steps	Expected Behaviors
Access the Manage Accounts Page.	Alert: “<i>You have to sign in first in order to access the page! Navigating...</i>” , Login Page is displayed.

Test 14: Edit Announcement Page

Requirements Covered:

- 14-1, 14-2, 14-3, 14-4, 14-5, 14-6, 14-7, 14-8, 14-9

Description: This test verifies the behavior of the Edit Announcement Page, focusing on saving and discarding announcements. Admin users can manage announcements by entering a title and content, while guests and members are restricted from accessing the page.

(Admin)

Steps	Expected Behaviors
Access the Edit Announcement Page.	Edit Announcement Page is displayed with an alert: <i>"Clicking REFRESH button or navigation to another page will delete unsaved changes without further notice."</i>
Click the "Save" button without any empty fields(title and content).	The title and contents are immediately updated on the database and the updates are displayed on the Announcement Page, and the admin is navigated to the Announcement Page. Alert: <i>"Announcement Updated! Navigating to the Announcement Page..!"</i> , updating the announcement and navigating the admin to the "Announcement Page".
Access the Edit Announcement Page again.	Edit Announcement Page is displayed with an alert: "Discard button or navigation to another page will delete unsaved changes without further notice.", and the updated contents/title is shown automatically.
Click the "Save" button with an empty title or content.	Alert: <i>"Please complete both the title and content fields."</i>
Click the "Save" button with an empty title and content.	Alert: <i>"Announcement Updated! Navigating to the Announcement Page..!"</i> , updating the announcement and navigating the admin to the "Announcement Page".

	Announcement content is kept empty, but the title is now set as “No Announcement Yet”.
Click the “REFRESH” button	<p>Unsaved changes are discarded, and previously saved announcements are reloaded.</p> <p><i>alert: "Clicking the REFRESH button or navigation to another page will delete unsaved changes without further notice."</i></p>

(Member)

Steps	Expected Behaviors
Access the Edit Announcement Page.	<i>Alert: “Only executives can access this page! Navigating to the Home Screen...”</i> , Home Screen Page is displayed.

(Guest)

Steps	Expected Behaviors
Access the Edit Announcement Page.	<i>Alert: “You have to sign in first in order to access the page! Navigating...”</i> , Login Page is displayed.