CSE 316 Final Project Requirements

Team 4

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CSE 316.90: Fundamentals of Software Development

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1. Navigation Bar (Large screen)

Req 1-1: The **navigation bar** shall contain **'CO;DERS US', "GALLERY", "MEMBERS"**, **"ANNOUNCEMENT"**, and **"LOGIN"** (**not logged in**).

Req 1-2: The **navigation bar** shall contain **'CO;DERS US', "GALLERY", "MEMBERS"**, **"ANNOUNCEMENT"**, **"LOGOUT"**, and a **user icon menu** only for **non-executive members**.

Req 1-3: The **navigation bar** shall contain **'CO;DERS US'**, **"ADMIN", "GALLERY",** **"MEMBERS", "ANNOUNCEMENT", "LOGOUT", and a user icon menu only for the** **executive accounts**.

Req 1-4: While **hovering** over the **"MEMBERS" menu**, the application shall immediately show the **"Executives"** and **"Advisory Committee" menus**.

Req 1-5: While **hovering** over the **"ADMIN" menu** (for **admin users only**), the **front end** shall show the **"Edit Announcement"**, **"Edit Gallery"**, and **"Manage Accounts" menus**.

Req 1-6: The **navigation bar** shall include an additional **"ADMIN" menu item** for **admin users** to the **left of "GALLERY"**.

Req 1-7: **Dropdown menus** shall appear immediately upon **hover** and disappear when the **cursor moves away**.

Req 1-8: Each **menu item** and **dropdown option** shall have a **hover effect** where the **background color** darkens slightly when the **cursor hovers** over it.

Req 1-9: When the **"CO;DERS US" menu** is clicked, the web application shall display the **"HomeScreen Page"**.

Req 1-10: When the **"GALLERY" menu** is clicked, the web application shall display the **"Gallery Page"**.

Req 1-11: When the **"Executives" menu** is clicked, the web application shall display the **"Executives Page"**.

Req 1-12: When the **"Advisory Committee" menu** is clicked, the web application shall display the **"Advisory Committee Page"**.

Req 1-13: When a **member(logged-in user)** clicks on the **"ANNOUNCEMENT" menu**, the web application shall display the **"Announcement Page"**.

Req 1-14: When the **"ANNOUNCEMENT" menu** is clicked by a **guest(not logged-in)**, the web application shall display an **alert**: **"You have to sign in first in order to access the page! Navigating to the Login Page…"**, and navigate the **guest** to the **"LogIn Page"**.

Req 1-15: When clicking the **"LOGIN" menu (only appeared to not-logged-in guest)**, the web application shall display the **"Login Page"**.

Req 1-16: When the **"LOGOUT" menu** is clicked, the web application shall **log the user out** with an alert, "Logout successful!". If a user was on a page that requires authentication, another alert, "**You have to sign in first in order to access the page! Navigating…**" will appear also. Then display the **"HomeScreen Page"**.

Req 1-17: When the **"Edit Announcement" menu** (**visible only to admin accounts**) is clicked, the web application shall display the **"Edit Management Page"**.

Req 1-18: When the **"Edit Gallery" menu** (**visible only to admin accounts**) is clicked, the web application shall display the **"Edit Gallery Page"**.

Req 1-19: When the **"Manage Accounts" menu** (**visible only to admin accounts**) is clicked, the web application shall display the **"Manage Account Page"**.

Req 1-20: When the **user icon** is clicked by a **member(logged-in)** or an **administrator**, the web application shall display the **"My Information Page"**.

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2. Navigation Bar (Small Screen)

Req 2-1: The **navigation bar** shall adapt to **small screens** with the **"CO;DERS US" menu** on the **left** and the **menu toggle icon** (**hamburger icon**) on the **right**.

Req 2-2: When the **menu toggle icon** is clicked, the **navigation menu** shall **expand vertically**, showing all **menu options**, including **"GALLERY"**, **"MEMBERS"**, **"ANNOUNCEMENT"**, **"LOGIN"** or **"LOGOUT"** (based on **authentication state**), and **"MY INFORMATION" menus**.

Req 2-3: When the **menu toggle icon** is clicked while the **menu is already expanded**, the web application shall **close the menus**.

Req 2-4: For **administrative accounts**, when the **menu toggle icon** is clicked, the web application shall also display the **"ADMIN" menu**, which opens a **dropdown** showing **"Edit Announcement"**, **"Edit Gallery"**, and **"Manage Accounts"**, on top of the **"GALLERY" menu**.

3. HomeScreen Page

Req 3-1: The **"HomeScreen Page"** shall accept **unauthorized users(not logged in)**.

Req 3-2: The **"HomeScreen Page"** shall provide **general information, including images** about the **club**.

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4. Executives Page

Req 4-1: The **"Executives Page"** shall accept **unauthorized users(both logged in and not logged in)**.

Req 4-2: The **"Executives Page"** shall display **information** about each **executive** (**name**, **position**, and **photo**), accessible to all **users** (**Admin**, **Member**, **Guest**).

Req 4-3: The **listing of executive members** on the **"Executives Page"** shall be **updated automatically** based on the **member's role status** referring to the **database (DB)**.

Req 4-4: When **Guest users** (**not logged in**) click the **'Contact Info' link**, the **"Executives Page"** shall trigger an **alert**: **"You must login first to see detailed contact information!"**

Req 4-5: The **"Executives Page"** shall open a **contact info dialog** displaying the executive's **contact information** (**phone number**, **email**, etc.) when the user clicks the **'Contact Info' link**.

Req 4-6: The **page** shall display a **default photo** if an **executive photo** has not been uploaded.

Req 4-7: The **contact info dialog** shall be **closed** when the user clicks the **"X" icon** in the **top right**.

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5. Advisory Board Page

Req 5-1: The **"Advisory Board Page"** shall accept **unauthorized users(both logged in and not logged in)**.

Req 5-2: The **"Advisory Board Page"** shall provide **information** on **how to join the Advisory Board**.

6. Login Page

Req 6-1: The **"Login Page"** shall accept only **guest users** (**not logged in**).

Req 6-2: If any **logged-in user** attempts to access this page(by explicitly typing the page address), the web application shall display an **alert**: **"Already logged in! Navigating…"** and navigate the **member user** to the **"HomeScreen Page"**.

Req 6-3: The **"Login Page"** accepts an **ID** and **password**, and upon clicking the **'Login' button**, it shall **verify** the entered information.

Req 6-4: If the **credentials are correct**, the web application shall alert, **"Login successful! Welcome!"** and then navigate the member to the **"Welcome Page"**.

Req 6-5: If either the **ID** or **password field** is **empty**, the web application shall avoid the form submission.

Req 6-6: If the **ID exists** but the **password does not match**, the web application shall display an **alert**: **"Invalid ID or password".**

Req 6-7: If the **ID does not exist**, the web application shall display an **alert**: **"Invalid ID or password".**

Req 6-8: Clicking the **'Sign Up Now' link** shall display the **"Sign-Up Page"**.

7. Welcome Page

Req 7-1: The **"Welcome Page"** shall accept only **logged-in members** (**member**, **admin**).

Req 7-2: If a **Guest** (**not logged in**) attempts to access this page through the **address bar**, the web application shall display an **alert**: **"You have to sign in first in order to access the page! Navigating…"**, and navigate the **guest** to the **"Home Screen Page"**.

Req 7-3: Upon successful **login**, the **"Welcome Page"** shall display a **greeting message**: **"Welcome back, <User Name>"**

Req 7-4: When the user clicks the **"Click Here to go home" link** at the bottom, the web application shall display the **"Home Screen Page"**.

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8. Sign-Up page

Req 8-1: The **"Sign-Up Page"** shall accept only **guest users** (**not logged-in**).

Req 8-2: If any **logged-in user** attempts to access this page, the web application shall display an **alert**: **"Already logged in! Navigating…"** and navigate the **member user** to the **"Home Screen Page"**.

Req 8-3: The **"Sign-Up Page"** shall accept **personal information** including **ID**, **password**, **name**, **phone number**, and an **email address** for **sign-up**.

Req 8-4: Clicking the **Duplicate Check button** shall check if the entered **ID** already exists.

Req 8-5: If the **ID already exists**, the web application shall display an **alert**: **"Member ID already exists",** and reject the ID.

Req 8-6: When clicking the **Sign-in button** after completing all **required fields** with **passing validation checks**, the web application shall display an **alert**: **"Sign up successful! Try logging in with the account!"** and navigate the **user** to the **"Login Page"**.

Req 8-7: If the **sign up** button is clicked when any **required fields** are missing, the web application shall avoid the form submission.

Req 8-8: If the **password** and **confirm password fields** do not match, the web application shall display an **alert**: "**Confirm password is not the same as password**".

Req 8-9: If the entered **email address** is not in a **valid format**, the web application shall avoid the form submission.

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9. Announcement Page

Req 9-1: The **"Announcement Page"** shall only accept **logged-in users**.

Req 9-2: If a **Guest** (**not logged in**) attempts to access, the web application shall display an **alert**: **"You have to sign in first in order to access the page! Navigating..."**, and navigate the **guest** to the **"Login Page"**.

Req 9-3: If no **announcements** have been posted yet, the **"Announcement Page"** shall display a **title**: **"No Announcements Yet"**, and **empty content** as default.

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10. Gallery Page

Req 10-1: The **"Gallery Page"** shall accept **unauthorized users(both logged-in and not-logged in)**.

Req 10-2: The **"Gallery Page"** shall display **images** related to **club activities**.

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11. My Information Page

Req 11-1: The **"My Information Page"** shall only accept **logged-in users**.

Req 11-2: If a **Guest** (**not logged in**) attempts to access, the web application shall display an **alert**: **"You have to sign in first in order to access the page! Navigating to the Login Page…"**, and navigate the **guest** to the **"Login Page"**.

Req 11-3: The **"My Information Page"** shall display the user's **personal information** (e.g., **name**, **email address, phone number**) in a **list of blocks.**

Req 11-4: My Information Page has a **"Change Image" button**, and clicking it shall open a **modification dialog for the image** to edit the profile image.

Req 11-5: Each **information block** has an **"Edit" button**, and clicking it shall open a **modification dialog** to edit that specific information.

Req 11-6: The **modification dialog** for each field shall **close** when the user clicks the **"X" icon** in the upper right corner or the **'Close' button**.

Req 11-7: The **modification dialog** shall **save the updated information** to the **database** when the user clicks the **'Save Changes' button**.

Req 11-8: The **modification dialog** shall trigger an **alert**: **"Changed successfully", close the dialog**, and refresh the "My Information" page if the modification is **successful**.

Req 11-9: The **modification dialog** for each information block shall trigger an **alert**: **"Please fill out every input." if the "Save Changes" button is clicked with any empty inputs.**

Req 11-10: The **modification dialog** for each information block shall trigger an **alert**: **"Please insert a new value!" if the "Save Changes" button is clicked with the same value as previous values.**

Req 11-11: The **modification dialog** for the image shall allow empty inputs and change the image to the default image if the "Save changes" button is clicked without any uploaded image files.

Req 11-12: The **modification dialog for the image** shall accept only valid image files.

Req 11-13: The **modification dialog for the password** shall accept two password inputs, one for the original password, and the other for the new password. It shall only accept modification when the user enters the original password correctly.

Req 11-14: The **<u>modification dialog</u> for the password** shall trigger an **alert**: **"Old password is not correct"** if the **'Save Changes' button** is clicked with the incorrect original password.

Req 11-15: The <u>modification dialog</u> for the password shall trigger an error message **"The new password cannot be the same as the old password"** below the new password input section if the user enters the same password as the original password.

Req 11-15 The <u>modification dialog</u> for the email shall trigger an error message **"Please enter a valid email address"** below the input section if the user enters invalid email address format.

Req 11-16: The modification dialog for the email shall trigger an **alert**: **"Please enter a valid email address"** if the **'Save Changes' button is clicked with an invalid email address.**

Req 11-17: The modification dialog for the phone number shall trigger an error message **"Invalid phone number format. Use 010-1234-5678"** below the input section if the user enters an invalid phone number format.

Req 11-18: The modification dialog for the phone number shall trigger an **alert**: **"Please enter a valid phone number (e.g., 010-1234-5678)."** if the **'Save Changes' button is clicked with an invalid phone number format.**

Req 11-19: The modification dialog for the password shall trigger an error message **"The new password cannot be the same as the old password"** below the New password input section if the user enters the same password as the previous one.

12. Edit Gallery Page

Req 12-1: The **"Edit Gallery Page"** shall only accept **administrative users**.

Req 12-2: If a **non-executive user(logged-in)** attempts to access, the web application shall display an **alert**: **"Only executives can access this page! Navigating to the Home Screen..."** and navigate the user to the **"Home Screen Page"**.

Req 12-3: The **"Edit Gallery Page"** shall allow **admin users** to **delete** or **add images** to the **gallery**.

Req 12-4: The web application shall display an **alert**: **"Clicking the Remove button will delete images without additional confirmation"** upon successfully entering this page.

Req 12-5: The **"Edit Gallery Page"** shall trigger an alert: **"Image deleted successfully"** when clicking the **'Remove' button and removing the image**.

Req 12-6: The **"Edit Gallery Page"** shall open an **image insertion dialog** to **add a new image** when the user clicks the **'ADD IMAGE' button**.

Req 12-7: The **image insertion dialog** shall be **closed without saving changes** when the user clicks the **"X" icon** in the top right or the **'Discard' button** in the dialog or clicking the 'Discard' button will have the same effect.

Req 12-8: The **image insertion dialog** shall trigger an **alert**: **"Please select an image file"** when the user clicks the **'Save' button** without an uploaded image.

Req 12-9: The image insertion dialog shall trigger an alert: "**Image added successfully!**", when the user clicks the **'Save' button with the appropriate image file.**

Re1 12-10: If an unauthorized user(not logged in) attempts to access, the web application shall display an alert: **"You have to sign in first in order to access the page! Navigating…"** and navigates the guest to the **"Login Page".**

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13. Manage Accounts Page

Req 13-1: The **"Manage Accounts Page"** shall only accept **administrative users (Chief Executive Manager, Executive Manager)**.

Req 13-2: This page shall display information about all members except the currently logged-in Admin, and allow **Admin** to **modify** and **delete member accounts**.

Req 13-3: If a **non-admin account** attempts to access this page, the web application shall display an **alert**: **"Only executives can access this page! Navigating to the Home Screen..."**, and navigate the user to the **"Home Screen Page"**.

Req 13-4: Upon successfully entering the page, the web application shall display an **alert**: **"Pressing the 'Remove' button or altering a member's role will immediately be updated to the database without additional confirmation."** to inform the **admin**.

Req 13-5: The **"Manage Accounts Page"** shall include a **dropdown menu** for selecting each **member's role**, and immediately **update the selected role** in the **database** without requiring additional confirmation or a **save button** when a role is modified via the **dropdown menu**.

Req 13-6: The **"Manage Accounts Page"** shall alert: "Cannot change directly from non-Executive member to Chief Executive Manager." if the Admin tries to promote non-Executive member (isExecutives = 0) to Chief Executive Manager (isExecutives = 2)

Req 13-7: The **"Manage Accounts Page"** shall alert: "You can only modify the position of someone with a lower rank than you." if the Admin attempts to modify the position of someone with the same or higher rank than the logged in Admin's rank(isExecutives).

Req 13-8: The **"Manage Accounts Page"** shall downgrade the logged in Chief Executive Manager to Executive Manager if another Executive member has been promoted to the Chief Executive manager.

Req 13-9: The "Manage Accounts Page" shall alert: "You have been demoted to Executive Manager" if the Chief Executive Manager Admin promotes other Executive Manager(isExecutives =1) to Chief Executive Manager(isExecutives = 2)

Req 13-10: The **"Manage Accounts Page"** shall alert: "Position updated to '<position>'" if the Admin successfully selects the dropdown position menu.

Req 13-11: The **"Manage Accounts Page"** shall **delete the member**, and the web application displays an **alert**: **"Member has been removed"** when the **admin user** clicks the **'Remove' button**.

Req 13-12: As a default, the **"Manage Accounts Page"** shall display: **"No Members Registered Yet"**.

Req 13-13: If a not authorized user(not-logged in) attempts to access, the web application shall display an alert: **"You have to sign in first in order to access the page! Navigating…"** and navigates the guest to the **"Login Page".**

Req 13-14: The "Manage Accounts Page" shall alert: **"Cannot delete a Chief Executive"** if the Admin clicks the delete button of the Chief Executive Manager.

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14. Edit Announcement Page

Req 14-1: The **"Edit Announcement Page"** shall only accept **administrative users**.

Req 14-2: The **"Edit Announcement Page"** shall allow the **admin** to **modify** a **title** and **content** for the **announcement**.

Req 14-3: If a **non-executive account** attempts to access this page, the **"Edit Announcement Page"** shall trigger an **alert**: **"Only executives can access this page! Navigating to the Home Screen..."**, and navigate the user to the **"Home Screen Page"**.

Req 14-4: Upon successfully entering the page, the web application shall display an **alert**: **"Clicking `REFRESH` button or navigation to another page will delete unsaved changes without further notice."** to inform the **admin**.

Req 14-5: Clicking the **"Save" button** with both contents filled shall trigger an alert: **"Announcement Updated! Navigating to the Announcement Page..!"**, **updating the announcement** and navigating the admin to the **"Announcement Page"**.

Req 14-6: When the **admin** clicks the **'Save' button** with either the **title** or **content field** left blank, the web application shall display an **alert**: **"You cannot leave only one content empty. To empty the announcement, clear both!"**

Req 14-7: Clicking the **'REFRESH'** button shall reload the previously saved announcement and discard unsaved changes, displaying an alert: **"Unsaved changes will be deleted without notice."**

Req 14-8: If the executive user empties both title and content, the system shall automatically set **"No Announcement Yet"** as its updated title.

Req 14-9: If an unauthorized user(not-logged in) attempts to access, the web application shall display an alert: **"You have to sign in first in order to access the page! Navigating…"** and navigates the guest to the **"Login Page".**