

Website Development Assignment

Website Name: South Carolina NESBE (National Society of Black Engineers)

Description of Topic:

The South Carolina NESBE (National Society of Black Engineers) website will serve as a central hub for members and prospective members of the South Carolina chapter of NESBE. The site will provide information about the organization's mission, upcoming events, membership benefits, and community outreach programs. Additionally, it will feature resources for students and professionals in the field of engineering, including job postings, networking opportunities, and educational content. The site aims to foster a sense of community and support for Black engineers in South Carolina. The goal is to enhance the current South Carolina NESBE branch website, which is currently very bare bones in functionality. This project will add more interactive and useful features to better serve the members and the community.

Page Names:

- Home
- About Us
- Events
- Sign up / Login
- Membership
- Job Postings
- Resources

Data Storage, Manipulation, and Viewing:

The South Carolina NESBE website will incorporate several data-driven features to enhance its functionality and serve the needs of its members. The primary data components include:

1. Job Postings:

- **Data Stored:** The job postings section will store a variety of information related to engineering jobs. Each job posting will include the following fields:
 - **Job Title:** The position being advertised.
 - **Description:** A detailed overview of the job responsibilities and requirements.
 - **Requirements:** Specific qualifications or skills needed for the position.
 - **Location:** The geographical location of the job.
 - **Company Name:** The name of the company offering the job.
 - **Application Deadline:** The final date by which applications must be submitted.
 - **Contact Information:** Details on how to apply or who to contact for more information.
- **Data Manipulation:** Only administrators will have the ability to add, edit, or delete job postings. This will ensure that the job board remains up-to-date and relevant. Admin users will log in with secure accounts to manage these postings.

- **Data Viewing:** All visitors to the site can view the job postings. Users can filter and search through postings based on criteria such as job title, location, and company name.

2. Member Profiles:

- **Data Stored:** Members of the South Carolina NESBE chapter can create and maintain personal profiles. Each profile will contain:
 - **Name:** The member's full name.
 - **Contact Information:** Email address, phone number, and other relevant contact details.
 - **Professional Experience:** A summary of the member's work history and skills.
 - **Educational Background:** Details of the member's academic achievements and qualifications.
 - **NESBE Membership Details:** Membership start date, membership level, and involvement in NESBE events or activities.
- **Data Manipulation:** Members will be able to log in securely to create and update their profiles. Administrators will also have the ability to manage member profiles, including the capability to reset passwords or deactivate accounts.
- **Data Viewing:** Member profiles will be viewable by the individual member and site administrators. Certain profile information, such as professional experience and educational background, may be made publicly available if the member consents.

3. Event Registrations:

- **Data Stored:** The website will include a feature for members to register for upcoming NESBE events. The data stored for each registration will include:
 - **Event Name:** The name of the event the member is registering for.
 - **Registrant Name:** The name of the member registering for the event.
 - **Date of Registration:** The date when the registration was made.
 - **Special Requirements:** Any special accommodations or requests made by the registrant.
- **Data Manipulation:** Members can log in to register for events, and they can update or cancel their registrations. Administrators will manage the event database, ensuring that registrations are recorded correctly and that any special requirements are addressed.
- **Data Viewing:** Members can view their own registration history. Administrators will have access to all registration data to monitor event attendance and make necessary preparations.

4. Resource Library:

- **Data Stored:** A library of resources such as documents, guides, and links related to engineering and professional development will be available. Each resource will include:
 - **Resource Title:** The name of the resource.
 - **Description:** A brief summary of what the resource offers.
 - **Upload Date:** The date the resource was added to the library.
 - **File Type:** The format of the resource (e.g., PDF, DOCX, link).

- **Data Manipulation:** Administrators will upload and manage the resources. They will ensure that the library remains relevant and accessible to members.
- **Data Viewing:** All members will have access to the resource library. The resources will be searchable and categorized for easy navigation.

User Accounts and Security:

To ensure data security and integrity, the website will feature a robust user authentication system.

Members will create accounts with secure passwords, and administrators will have higher privileges to manage content and data. User roles will be clearly defined to prevent unauthorized access to sensitive information.