

LAB-6

The exercise involves a registration form with validation for a Library management system. The application utilizes various technologies including HTML, CSS, JavaScript, and potentially frameworks like Bootstrap and Tailwind CSS.

Structure

- index.html: Main page of the takeoff creator support page.
- script.js: JavaScript for handling form validation and interaction.

Documentation

index.html

Purpose: This file defines the structure and layout of the library management system's main page.

Key Sections:

- Header: Contains the navigation bar with links to other pages.
- Main Content: Includes the registration form with input fields for user details.
- Footer: Contains footer information and contact details.

Design:

1. HTML5 Semantics: Used HTML5 semantic elements (<header>, <nav>, <main>, <footer>) for better structure and accessibility.
2. Responsive Design: Applied responsive classes from Tailwind CSS and Bootstrap to ensure the layout adjusts well on different screen sizes.

script.js

Purpose: Contains JavaScript functions to handle form validation and Submission.

Key Functions:

- `validateFullName`: Validates the name input field.
- `validateEmail`: Validates the email input field.

- `validatePassword()`: Validates the password.
- `validatePasswordMatch()`: Validates the password with a confirm password input field.
- `validateDob()`: Validates the age input field.

Design:

1. Modular Functions: Each validation function is modular to ensure separation of concerns and easier maintenance.
2. Real-Time Feedback: Validation is performed in real-time as the user types, enhancing the user experience.

Implementation Decisions

1. Use of Tailwind CSS and Bootstrap:

- o **Tailwind CSS:** Provides utility-first classes that allow for rapid styling and responsive design.

- o **Rationale:** Tailwind helps to ensuring a visually appealing and functional design.

2. Form Validation:

- o **Real-Time Validation:** Improves user experience by providing immediate feedback.

- o **Modular Approach:** Each field's validation is handled separately to ensure clear and manageable code.