



Building a Dynamic Website

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Abdelfattah Tayyem

Farah Waleed

Nour Othman

The screenshot displays a web browser window with a dark theme. The browser's address bar shows the file path 'C:/Users/tayye/OneDrive/Desktop/project1/index.html'. The website's header features a 'Gym' logo on the left, navigation links 'Home', 'To-Do', and 'Calculator' in the center, and a settings bar on the right with options for 'Background Color', 'Font Color', and 'Font Family'. The main content area is a dark gray rectangle containing a 'GYM APPLICATION FORM'. The form has a title 'GYM APPLICATION FORM' and a subtitle 'Please fill out the form below to apply for gym membership'. It includes five input fields: 'Enter your user name', 'Enter your email address', 'mm/dd/yyyy' (with a calendar icon), 'Enter your phone number', and 'Enter your password'. Below these fields is a 'Check Data' checkbox. At the bottom of the form are three buttons: 'Send Data To Local', 'Send Data To Session', and 'Clear Data'. The footer of the website contains the text 'Copyright symbol © or the word "copyright"'.

1. Home Page: Contact Us Form

Purpose:

The Home Page features a Contact Us form allowing users to submit their personal information. This page is designed to gather user data and offer interaction through form submission options.

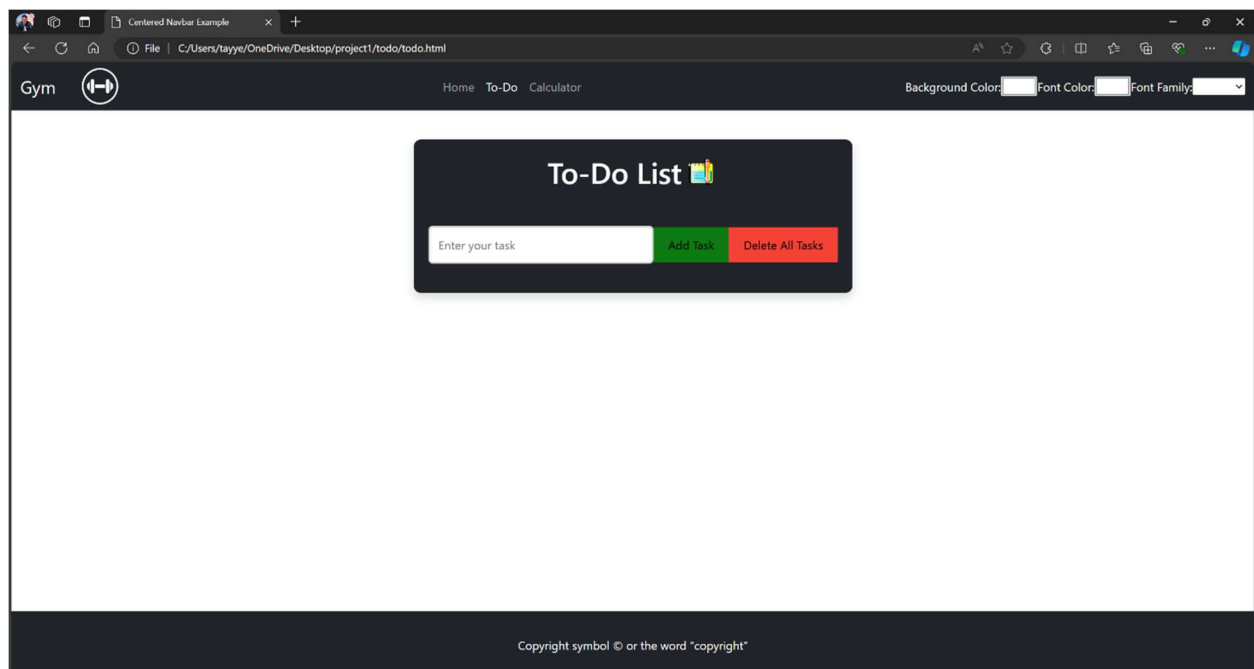
Elements:

- **Header:**
 - **Logo:** Positioned at the top-left corner for branding purposes.
 - **Navigation Bar:** Includes links to the To-Do List page, Calculator page, and Home page for easy navigation.
- **Main Section:**
 - **Form Fields:**
 - **User Name:** Text input field for the user's name.
 - **Email:** Text input field for the user's email address. Validation checks to ensure a valid email format.
 - **Date of Birth:** Date input field to select the user's birthdate.
 - **Phone Number:** Text input field for the user's phone number, with validation for proper formatting.
 - **Password:** Password input field with validation for password strength (e.g., minimum length, inclusion of special characters).

- **Checkbox:**
 - **Agreement Checkbox:** Must be checked to enable the Save Data buttons. Displays a message indicating agreement to terms.
- **Buttons:**
 - **Save to Local Storage:** Saves the form data to the browser's local storage. Initially disabled until the checkbox is checked.
 - **Save to Session Storage:** Saves the form data to the browser's session storage. Initially disabled until the checkbox is checked.
 - **Clear Form:** Clears all input fields in the form.
- **Footer:**
 - Contains links or information such as Contact details and Privacy Policy.

Interactions:

- Form validation is performed using JavaScript to ensure data integrity before submission.
 - Buttons become enabled only when the agreement checkbox is checked.
 - The “Clear Form” button resets all input fields.
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2. To-Do List Page

Purpose:

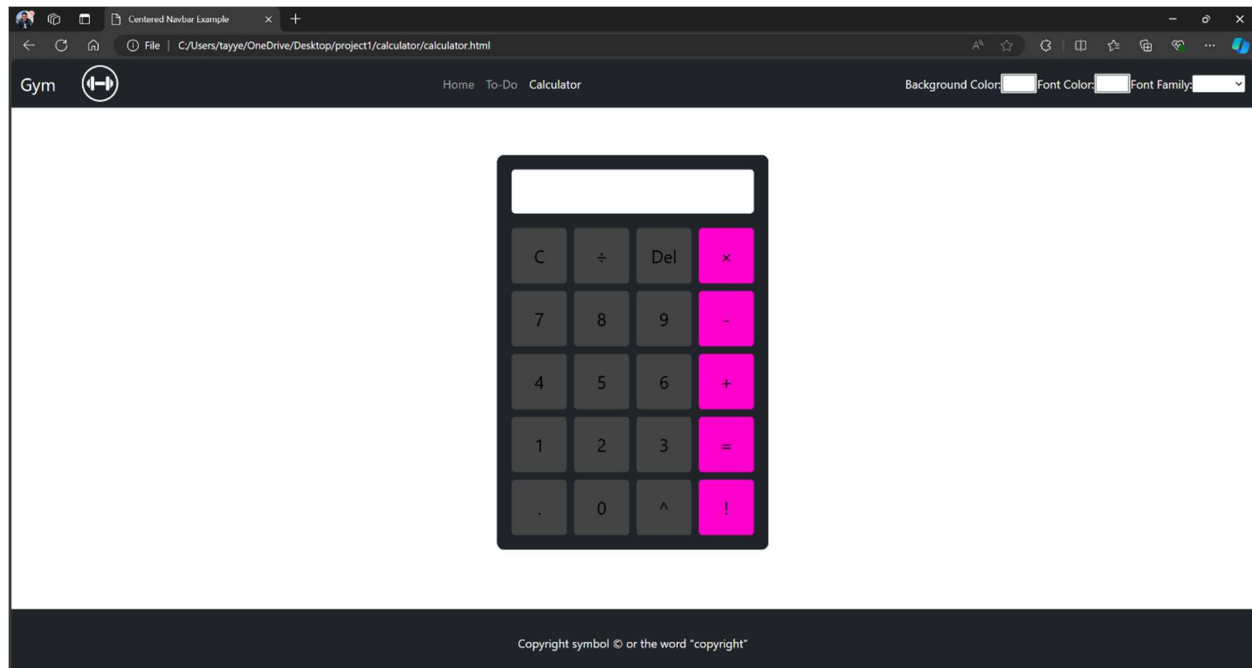
The To-Do List page allows users to manage tasks by adding new ones and deleting existing tasks. This page utilizes local storage to keep track of tasks between sessions.

Elements:

- **Header:**
 - **Logo:** Same as on the Home Page for consistency.
 - **Navigation Bar:** Includes links to the Home page, Calculator page, and To-Do List page.
- **Main Section:**
 - **Input Field:**
 - **Enter Task:** A text input field where users can type in a new task.
 - **Buttons:**
 - **Add Task to Local Storage:** Adds the entered task to local storage and displays it in the list.
 - **Delete All Tasks:** Removes all tasks from local storage and clears the task list.
 - **Task List:**
 - Displays a list of added tasks, each with its own delete button to remove that specific task.

Interactions:

- Tasks are saved to local storage and displayed dynamically.
 - Users can delete individual tasks or clear all tasks using the provided buttons.
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3. Calculator Page

Purpose:

The Calculator Page provides a simple calculator interface for performing basic mathematical operations, including addition, subtraction, multiplication, division, power, and factorial.

Elements:

- **Header:**
 - **Logo:** Consistent with the other pages.
 - **Navigation Bar:** Includes links to the Home page, To-Do List page, and Calculator page.
- **Main Section:**
 - **Calculator Layout:**
 - **Display Area:** Shows the current input and calculation results.
 - **Buttons:**
 - **Numbers (0-9):** Numeric buttons for entering values.
 - **Operations:** Buttons for addition (+), subtraction (-), multiplication (*), division (/), power (^), and factorial (!). Each operation is implemented using arrow functions in JavaScript.

- **Input Field or Buttons:** Users interact with the buttons to perform calculations.

Interactions:

- Users input numbers and select operations to perform calculations.
 - Results are displayed in the display area, updating dynamically with each interaction.
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