**Project Overview**

* **Functionality**
* **User Input**: Users can enter a non-negative integer.
* **Calculation Methods**: Choose between:
  + **Iterative Method**: Calculates factorial using a loop.
  + **Recursive Method**: Calculates factorial using a recursive function.
* **Results Displayed**:
  + **Factorial Result**: The computed factorial value.
  + **Calculation Method**: Indicates whether the iterative or recursive method was used.
  + **Time Taken**: The duration of the computation.
* **Technologies Used**
* **HTML**: Structures the web page and form elements.
* **CSS**: Styles the interface for a clean and user-friendly appearance.
* **JavaScript**: Handles user interactions, performs factorial calculations, and updates the DOM with results.

**Implementation Details**

* **HTML Structure**
* **Input Field**: Allows users to enter a number.
* **Method Selection**: Radio buttons or a dropdown to select the calculation method.
* **Calculate Button**: Triggers the factorial computation.
* **Result Display**: Shows the factorial result, chosen method, and time taken.
* **CSS Styling**
* **Layout**: Centers the calculator on the page with appropriate spacing.
* **Typography**: Uses readable fonts and sizes for clarity.
* **Colors**: Applies a consistent color scheme for inputs, buttons, and results.
* **JavaScript Logic**
* **Event Handling**: Listens for the calculate button click event.
* **Input Validation**: Ensures the entered value is a non-negative integer.
* **Factorial Functions**:
  + **Iterative**: Uses a loop to multiply numbers from 1 to n.
  + **Recursive**: Calls itself with decremented values until reaching 1.
* **Performance Timing**: Measures the time taken to compute the factorial.
* **DOM Manipulation**: Updates the result section with the computed values.

**Deployment on Netlify**

The project is deployed using Netlify, a platform for hosting static websites.

**Prepare Project Folder**: Ensure all files (HTML, CSS, JS) are organized, with index.html at the root.

1. **Login to Netlify**: Create an account or log in
2. **Deploy Site**:
   * **Manual Deployment**: Drag and drop the project folder into Netlify's dashboard.
   * **Git Integration**: Connect a Git repository for continuous deployment