Web App Assignment: Interactivity with UX Elements Based on Age and Location

Objective:

Create a JavaScript application that runs in a browser and detects user IP and location, validates age with conditional logic, and dynamically updates UI elements like country flags, dropdowns, and computes dates.

Project Goals:

- **Automated Capture of User IP and Country:**

  The application must call and save the user IP and country name with the help of an external IP geolocator on his browser session.

  This information has to be saved into the sessionStorage or localStorage of the browser.

- **Age Verification with a Popup:**

  Ask the user to input their age using a modal or a JavaScript prompt().

  Users under the age of 18 will receive an alert and the browser will automatically close or redirect, simulating restricted access.

  Users aged 18 and above will be granted access.

- **Age Verification with Details:**

  Provide a dropdown which allows the user to select their date of birth (or an age range).

  Based on selection, calculate and display:

  Present age in years, months and days.

  Display this in a styled info box on the page.

- **Choosing Country and Showing Flag**

  Provide a searchable dropdown with a list of countries.

  When a country is selected:

  Show the flag of the selected country.

  Present a small fact about that country (e.g., capital population).

- **Features:**

  Store all selected values (age, country, etc.) in localStorage.

  On page reload, auto-fill previously selected data.

  Dark/Light theme toggle.

  Responsive layout for mobile.

  Use animations for popup or dropdown interactions.

  Include a reset button to clear all stored data and reload the app.

- **Technical Requirements:**

  Use only HTML, CSS, and JavaScript

  Third-party public APIs can be used for:

  IP Geolocation (e.g., ipapi, ipinfo.io, etc.)

  Country flags (e.g., REST Countries API).

  Use modular code structure (functions, classes if needed).

  Style must be user-friendly and responsive.