**Southern Skin Cancer Treatment Center of America**

UV Index Chart Website Development  
Conceptual Design

**1. Project Overview**

The Southern Skin Cancer Treatment Center of America is developing a UV Index Chart website to help patients manage their daily UV exposure. The website will show UV index forecasts for any U.S. location, allowing patients to plan their activities safely.

**2. Design Goals**

* Functionality First: Simple and reliable interface.
* Ease of Use: Patients can input a city or zip code to get UV data.
* National Accessibility: Work for any city or zip code across the U.S.
* UV Information: Show hourly UV levels across each day, not just daily averages.
* Historical and Forecasted Data: Display the past 5 days and next 5 days of UV exposure.
* Visualization: Use clean and readable charts to show UV trends.

**3. Key Features**

* Search Input:
  + City name or zip code entry field.
  + Submit button to fetch UV data.
* UV Data Display:
  + Current location and date.
  + The past 5 days of UV exposure by hour.
  + The next 5 days of UV forecast by hour.
* Chart Integration:
  + Graph showing UV index through the day.
  + Separate charts for past and forecasted days.
  + Ability to go between past and future views.
* Responsive Messages:
  + Feedback if a location is not found.

**4. Technology Stack**

* Frontend:
  + HTML, CSS, and JavaScript.
* API:
  + Open-Meteo UV Forecast API for live and historical data.
* Charting Library:
  + Chart.js for visual representation of UV levels.

**5. Conceptual Wireframe**

Header:

* Southern Skin Cancer Treatment Center
* Page title: UV Index Chart

Input Section:

* Input field: Enter City or Zip Code
* Submit button

Main Content:

* Location name and date range
* Two tabs:
  + Past 5 days UV data chart
  + Next 5 days UV forecast chart

**6. User Interaction Flow**

1. Patient opens website.
2. Patients enter the city name or zip code.
3. System gets UV data from Open-Meteo API.
4. Charts display:
   * UV exposure trends for the past 5 days.
   * UV forecasts for the next 5 days.
5. Patients will use the data to plan outdoor activities safely.

**7. Future Enhancements**

* Save favorite cities and locations.
* Personalized alerts.
* Mobile friendly version.
* Daily tips based on forecast.