Project Charter Plan

UV Index Chart Website Development

Southern Skin Cancer Treatment Center of America
Dallas, Texas

Date: April 2, 2025

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Executive Summary

Southern Skin Cancer Treatment Center of America specializes in treating skin disorders caused by excessive sun exposure across 12 clinics in the southern United States. A new patient-centered treatment plan requires patients to monitor and manage their UV exposure. To support this plan, the organization will develop a web-based UV Index Chart tool. This website will forecast UV levels for any U.S. location over the past 5 days and next 5 days and display daily UV variations via visual charts. Patients can better plan their activities based on these forecasts, minimizing UV risks.

Project Purpose/Justification

The purpose of this project is to help patients to safely manage their sun exposure as part of their personalized care plans. The website will be an important tool in helping patients understand and monitor UV risks.

Business Need/Case

This project is to help enhance patient support and preventative care. By providing a UV monitoring tool, Southern Skin Cancer Treatment Center can reduce the risk of skin damage for patients, resulting in better treatment outcomes and increased patient satisfaction.

Business Objectives

- Develop a UV Index Chart website using HTML, CSS, and JavaScript by May 1st.

- Enable patients to view historical and forecasted UV data by city or zip code.

- Integrate Open-Meteo's API for accurate, location-based UV data.

- Provide visualizations of daily UV exposure over the whole day.

- Launch a fully functional and tested website by July 2025.

Project Description

The UV Index Chart website will allow patients to input a city or zip code and retrieve a charted UV index forecast over the past and upcoming five days, including hourly forecasts. The site will focus on functionality rather than looks and be accessible to all U.S. patients.

Project Objectives and Success Criteria

- Display UV data by city or zip code entered by the patient.

- Chart hourly UV exposure over a day for the last 5 and next 5 days.

- Accurate API integration.

- User-friendly and intuitive input interface.

Requirements

- HTML, CSS, JavaScript.

- Input field for city or zip code.

- Integration with Open-Meteo UV forecast API.

- Charts for visual representation.

- Support for any U.S. city or zip code.

- Display past 5 days and forecast next 5 days' UV index.

Constraints

- Must use Open-Meteo API data.

- Must be operational for all U.S. locations.

- Limited to HTML, CSS, and JavaScript only.

Assumptions

- Open-Meteo API will remain publicly accessible.

- Patients have access to devices with modern web browsers.

- The API will provide both historical and forecast UV data reliably.

Preliminary Scope Statement

This project will deliver a functional website providing UV exposure information and forecasts for U.S. patients. The website will integrate external API data, visually represent UV indexes over time, and allow city and zip code search functionality.

Risks

- API data outages or access restrictions.

- User input errors.

- Inconsistent UV data from third-party sources.

- Patients misunderstand data.

Project Deliverables

- Fully functional UV Index Chart website.

- Integration with Open-Meteo API.

- Visual UV exposure charts for the past 5 days and future 5 days.

- Basic user instructions on the website.

Summary Milestone Schedule

Project Milestone	Target Date
Project Start	05/01/2025
Requirements Finalization	05/05/2025
Initial Concept Design and Mockup	05/10/2025
First Working Prototype	05/15/2025
API Integration Testing	05/20/2025
Final Testing and Feedback	05/25/2025
Launch Website	06/1/2025

Summary Budget

Project Component	Estimated Cost
Web Development Resources	$10,000
Hosting and Domain Fees	$1,000
API Access and Integration	$0
Miscellaneous/Contingency	$500
Total	$11,500

Project Approval Requirements

Completion will be achieved when the UV Index Chart website is fully functional, accurately displays UV forecasts and historical data, integrates properly with Open-Meteo API, and is user-validated.

Project Manager

John Doe is the Project Manager for the UV Index Chart project. He will go over all phases of the project. He is authorized to manage the project budget and cooperate with external API providers if necessary.

Authorization

Approved by John Doe

from Southern Skin Cancer Treatment Center of America