

PROJECT CHARTER PLAN
UV INDEX TRACKER

SOUTHERN SKIN CANCER CLINIC OF AMERICA
ASSOCIATION OF SKIN CANCER CLINIC IN THE SOUTHERN UNITED STATES
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EXECUTIVE SUMMARY

The **UV Index Tracker** project aims to create a user-friendly webpage that allows individuals to monitor their UV exposure levels. By journaling their UV exposure from the past, present, and future, users can make informed decisions to protect their skin health. The project is commissioned by the **Southern Skin Cancer Clinic of America**, an organization committed to proactive patient care. Mr. Bruce Bauer, the clinic's Administrator, has assigned this project to Parikshya Bhandari. The clinic operates under the umbrella of skin cancer clinics in the Southern United States.

PROJECT PURPOSE/JUSTIFICATION

The purpose of the UV Index Tracker is to provide a valuable tool for patients to manage their UV exposure effectively. By offering location-based UV forecasts, historical data tracking, and clear instructions, the webpage will empower users to protect themselves from harmful UV radiation.

Business Need/Case

- **Health Impact:** Skin cancer poses a serious health risk, especially with increasing UV exposure. By providing a tool that helps manage exposure, the UV Index Tracker plays a pivotal role in skin cancer prevention and heightens public awareness about the risks of prolonged sun exposure.
- **Patient Empowerment:** It is crucial for patients to have access to reliable and accurate tools to monitor their UV exposure, enabling them to make informed decisions about their outdoor activities. The UV Index Tracker offers personalized advice and actionable steps to minimize harmful exposure.
- **Clinic Reputation:** The Southern Skin Cancer Clinic of America seeks to establish itself as a leader in dermatological care by integrating advanced technological solutions like the UV Index Tracker into its patient care strategy. This not only enhances patient outcomes but also strengthens the clinic's reputation as an innovator in healthcare services.

Business Objectives

1. **Develop a User-Friendly Webpage:** The goal is to design a webpage that is easy to navigate and understand, making the UV Index information accessible to a wide range of users, regardless of their technical proficiency.

2. **Provide Accurate UV Forecasts:** The webpage aims to offer precise UV index forecasts for both current and future dates, tailored to the users' specific geographic locations, enhancing their ability to plan and protect themselves effectively.
3. **Visualize Data:** Data visualization is key in the UV Index Tracker, where UV index levels are depicted in a color-coded chart. This visual representation helps users quickly grasp the severity of UV radiation throughout different times of the day or year.
4. **Ensure Privacy:** Privacy and security are paramount; the webpage will adhere strictly to HIPAA regulations to protect sensitive patient data from unauthorized access and ensure that user interactions with the site are secure and private.

PROJECT DESCRIPTION

Project Objectives and Success Criteria

- **Objective:** The goal is to develop a UV Index Tracker webpage that provides real-time and forecasted UV index readings. This webpage is designed to be a useful tool for users seeking to monitor UV exposure levels in their location.
- **Success Criteria:**
 - **User-friendly interface:** The design of the webpage will prioritize ease of use, ensuring that all users can navigate and interact with the UV Index Tracker effectively.
 - **Accurate UV forecasts:** The tracker will rely on up-to-date and precise meteorological data to provide accurate UV index forecasts, helping users make informed decisions about sun exposure.
 - **Clear instructions for users:** The webpage will include straightforward, easy-to-follow instructions to assist users in utilizing all available features without confusion.
 - **Responsive design for smartphones and PCs:** The webpage will be optimized for various devices, ensuring a seamless and consistent user experience across smartphones and personal computers.

Requirements

- **Location Input:** Users will have the option to input their location manually or use geolocation services to automatically determine their current position, enhancing the personalization of the UV index data.
- **Date Range Selection:** Users can specify a date range, selecting 'from' and 'to' dates, which allows for detailed tracking and analysis of UV exposure over specified periods.

- **UV Index Display:** The webpage will display both real-time and forecasted UV index values, giving users access to immediate and future UV exposure levels.
- **Color-Coded Chart:** UV severity levels will be visualized on a chart using color indicators that range from low to extreme, making it easy to understand the potential risk at a glance.

Constraints

- **No Patient Data Online:** The design will ensure the privacy of users by not storing or displaying any personal health data or sensitive patient information on the internet.

Assumptions

- **Users have basic internet navigation skills:** It is assumed that users accessing the webpage have a fundamental ability to navigate the internet, which will aid in the smooth use of the UV Index Tracker.
- **The webpage will be accessible across multiple devices and browsers:** There is an expectation that the webpage will function effectively on various devices and web browsers, ensuring broad accessibility.
- **Geolocation services are available to detect users' current location:** The webpage will utilize available geolocation services to automatically detect the user's current location, providing relevant UV index data.

Preliminary Scope Statement

The project includes the comprehensive design, development, and deployment of a UV Index Tracker webpage tailored for the Southern Skin Cancer Clinic of America. This webpage will feature a user-friendly interface and a visual chart to assist in tracking and understanding UV exposure. Importantly, it will handle data in a manner that respects user privacy and does not involve storing personal or patient-specific information online.

Future Enhancements

In the pursuit of strengthening data protection and user security within the UV Index Tracker project, upcoming enhancements will emphasize advanced encryption protocols, regular security audits, and stringent user authentication mechanisms. Recognizing the paramount importance of safeguarding user data, the Southern Skin Cancer Clinic of America is committed to implementing measures that ensure the privacy and integrity of all interactions on the UV Index Tracker webpage. Through the deployment of robust encryption techniques and the establishment of thorough authentication procedures, the project aims to fortify the platform

against potential cyber threats and unauthorized access, thereby instilling confidence among users regarding the safety of their personal information.

Furthermore, the integration of Google Analytics stands as a pivotal step in enhancing user engagement and optimizing the UV Index Tracker webpage's performance. Leveraging the analytical insights provided by Google Analytics, the project team will gain valuable intelligence into user behavior, preferences, and interactions with the platform. By harnessing this data-driven approach, the project aims to refine features, personalize user experiences, and continuously improve the efficacy of the UV Index Tracker in promoting skin health awareness and facilitating informed decision-making regarding UV exposure management. Through the seamless fusion of robust security measures and insightful analytics, the UV Index Tracker project endeavors to elevate its impact in advancing public health initiatives and mitigating the risks associated with prolonged sun exposure.

RISKS

- **Technical Challenges:** The project involves complex technical requirements, such as developing accurate UV index forecasts that are tailored to specific geolocations. Integrating these geolocation services seamlessly will be crucial for providing localized UV data to users.
- **HIPAA Compliance:** It is critical to ensure that all aspects of the webpage comply with HIPAA regulations, particularly in safeguarding any patient data. This involves implementing strict security measures to prevent any patient data from being accidentally exposed or accessed through the webpage.
- **Dependency on the Open-Meteo API:** The functionality of the UV Index Tracker is heavily reliant on the Open-Meteo API for obtaining real-time UV index data. If there is an outage or failure in the Open-Meteo API, it could result in the webpage being unable to display UV index information, thereby affecting its overall reliability and user experience.

PROJECT DELIVERABLES

- **UV Index Tracker Webpage:** A fully functional and responsive webpage designed to provide users with real-time UV index readings. The webpage will feature an interactive chart that displays UV index levels throughout the day, which are color-coded from low to extreme to enhance user understanding and engagement.
- **User Instructions:** Comprehensive guidelines will be provided to assist users in navigating and utilizing the UV Index Tracker webpage effectively. These instructions will include steps on how to select different date ranges and understand the significance of the UV index levels displayed.

SUMMARY MILESTONE SCHEDULE

The project Summary Milestone Schedule is presented below. As requirements are more clearly defined this schedule may be modified. Any changes will be communicated through project status meetings by the project manager.

Summary Milestone Schedule	
Project Milestone	Total Weeks
• Project Initiation and Planning	2 weeks
• Research, Analysis and Design	2 weeks
• Development Phase	7 weeks
• Quality Assurance and Testing	2 weeks
• Training and Documentation	2 weeks
Total	15 weeks

SUMMARY TOTAL HOURS

The following table contains a summary budget based on the planned cost components and estimated costs required for successful completion of the project.

Summary Total Hours	
Project Component	Total Hours
• Project Plan, Analysis and Design	15 hours
• Development	100 hours
• Quality Assurance and Testing	15 hours
• Training and Documentation	10 hours
• Launch and Promotion	4 hours
Total	144 hours

PROJECT APPROVAL REQUIREMENTS

Successful deployment of the UV Index Tracker, comprehensive testing and quality assurance, and user accessibility. Approval will be sought from Mr. Bruce Bauer, Administrator of the Southern Skin Cancer Clinic, upon meeting these requirements.

PROJECT MANAGER

Parikshya Bhandari is designated as the Project Manager. Bhandari is responsible for overseeing all aspects of the project, from initial design to launch, and is authorized to manage the project budget within the allocated funds. Any additional funding must be requested through the Project Sponsor, Bruce Bauer. Ms. Bhandari will provide weekly updates to the Project Sponsor.

AUTHORIZATION

Approved by the Project Sponsor:

Mr. Bruce Bauer
Administrator
Southern Skin Cancer Clinic of America

Date: _____