**Southern Skin Cancer Treatment Center of America**

UV Index Chart Website Development  
SWOT Analysis

**Strengths**

* Personalized Patient Care: The UV tracking tool supports individualized guidance plans for patients, strengthening the center’s reputation.
* Simple Technology: The website will be developed using HTML, CSS, and JavaScript making it quick to build and maintain.
* Data Availability: Open-Meteo will provide a reliable and free UV forecast API, reducing the need for cost on data.
* National Reach: The tool will work for any location across the United States, making it very useful for patients traveling.

**Weaknesses**

* No Authentication: Without user accounts, personalized tracking will rely on patients manually logging their exposure elsewhere, which could reduce the patient using the website.
* Dependency on External API: Relies only on Open-Meteo's API, which could create vulnerabilities if the service changes or becomes unavailable.
* Limited to Web Browsers: Patients without web access or technical familiarity may struggle to use the website.

**Opportunities**

* Expansion into Mobile Applications: Future development could include mobile app versions for even easier patient access and daily notifications.
* Integration with Wearables: Opportunity to integrate with devices like Apple Watch for automatic UV tracking.
* Future Feature Enhancements: Adding features like personalized alerts and suggested protection measures based on forecasted UV.

**Threats**

* API Instability: Any service disruption to Open-Meteo API could significantly impact the website’s functionality.
* Data Accuracy Risks: Inaccurate UV data could affect the treatment plan’s effectiveness for each patient.
* User Adaptation: Patients may not use the website if it is not integrated with their daily routine.