

SmartSkin



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15-20%

of the Canadian population are diagnosed with some form of eczema.

Canadian Dermatology Association, 2025

This is expected to grow.

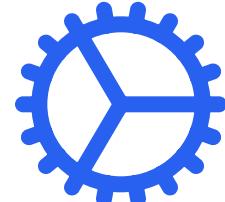




SmartSkin

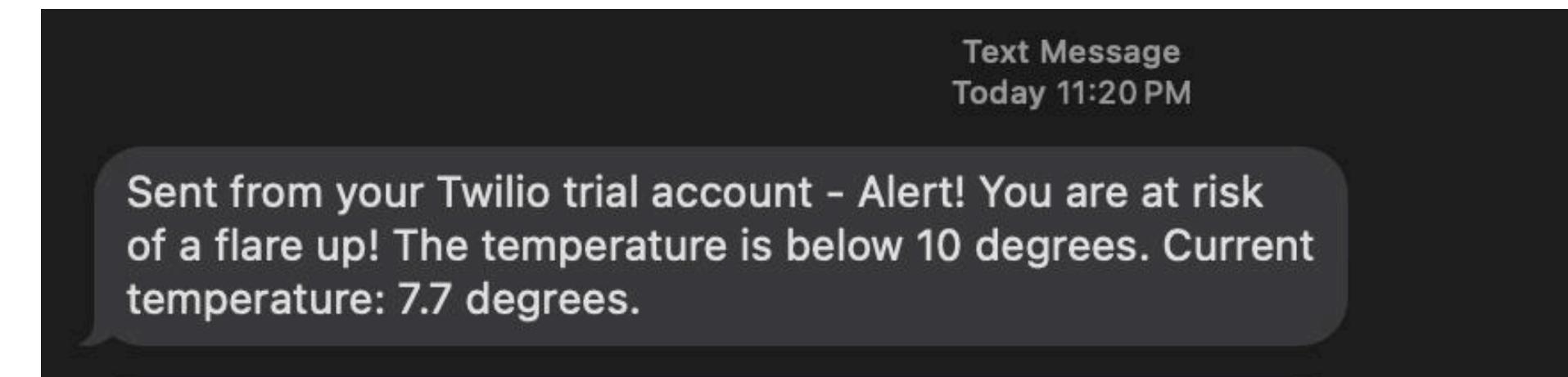


Functionality

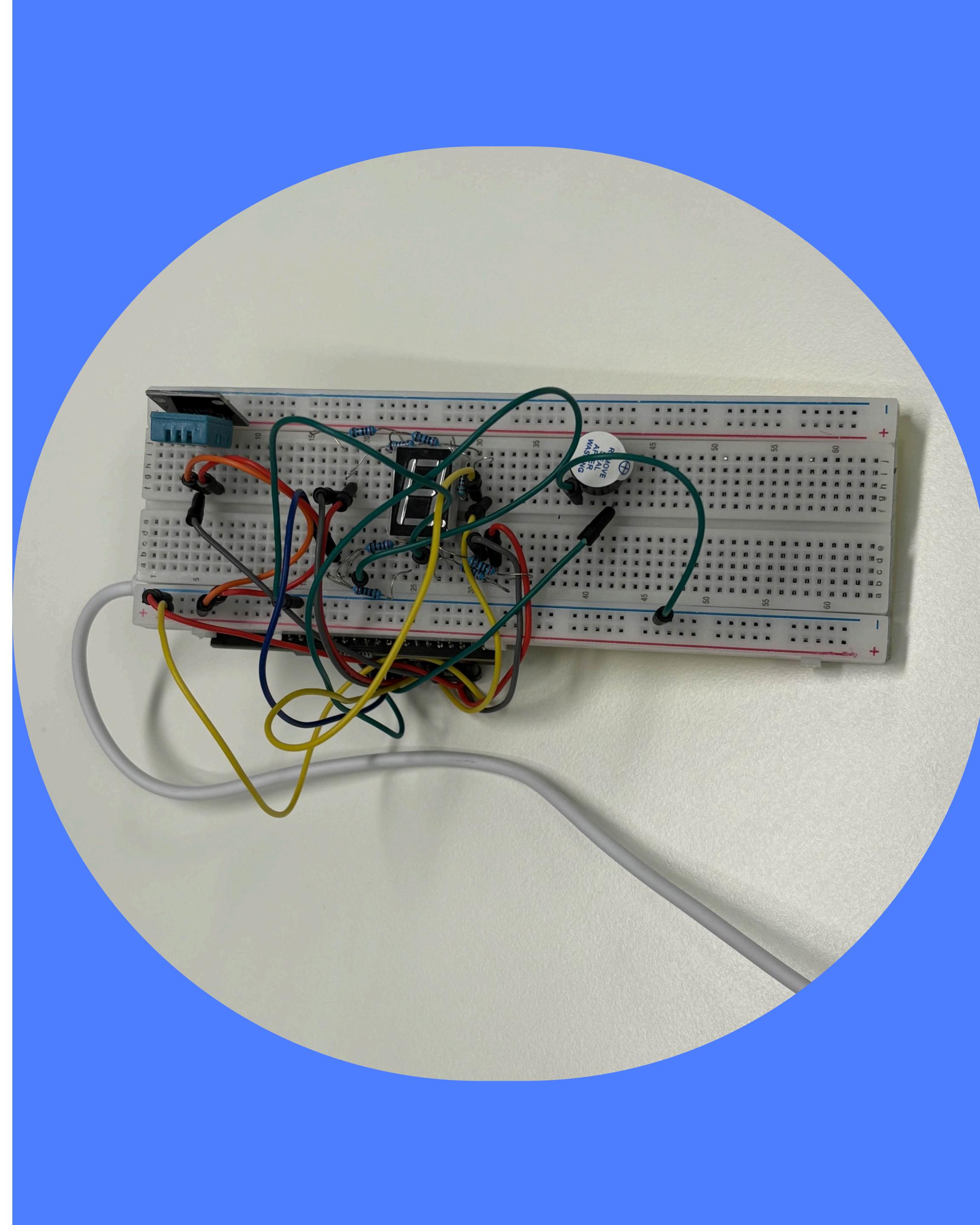


Tracks temperature, humidity, sunlight, in real time
utilizing TDHT11 temperature humidity sensors and photoresistors.

Provides audio and text notifications to the wearer
Warnings are based on a scale of 0-9 (least to most adverse) to reflect conditions of the environment



Offers personalized suggestions and reminders
Generated via AI engine and delivered through tailored website



Demo



Feasibility



Simplicity

Existing Technologies

Sensors and Bluetooth modules are readily available, affordable, and reliable.

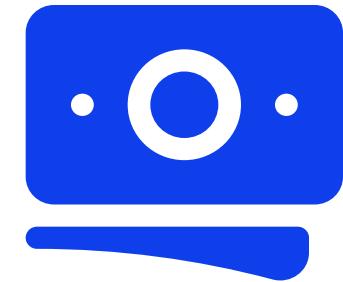
Advances in cloud storage and AI integration

Proven Demand

Growing market for wearable health devices or health management tools



Financial Breakdown



In 2022, the global skin disease treatment industry generated 88.25 billion USD in revenue





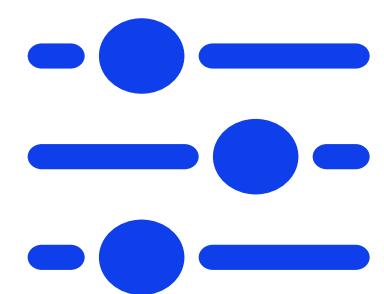
Risks and Mitigations

Regulatory Compliance

Sourcing high quality components and materials

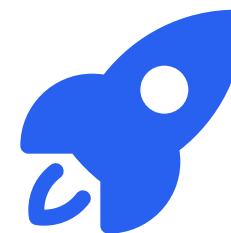
Conducting more in-depth audience research to identify potential new features

Perfecting a cost model that makes our product accessible and affordable to all users while maintaining financial viability





Future Plans



Solar Charging

For SmartSkins exposed to sunlight, implementing of solar charging capabilities would allow for sustainable long-term operations.

App Development

Pairing the physical product to a virtual cloud-based app to deliver more efficient notifications.

Desktop Extension

Extends weather and personalized care notification functions to a web-based application via extensions on a desktop.

Smarter Treatments

Integrating with healthcare systems to provide dermatologists with patient monitoring (further improving treatment plans available).

<https://nationaleczema.org/research/eczema-facts/>

<https://dermatology.ca/public-patients/diseases-conditions/skin-conditions/eczema/>

<https://www.grandviewresearch.com/sector-report/skin-diseases-treatment-industry-data-book>

References