

## Success Story

# Enhancing a Multi-Source Health Tracking App with AI and IoT Integration

## About The Client

### Customer

Healthgauge

### Country

Canada

### Industry

Healthtech

Health Gauge is a cutting-edge health technology company based in Canada specializing in biometric monitoring and health intelligence solutions. Their platform integrates advanced AI, neural networks, and predictive analytics to support personalized healthcare and remote patient monitoring.

## Technology Stack



## Services Used

UI/UX Design Services

IoT Development Services

Patient Monitoring Solutions

## Business Situation

Healthgauge initially developed a mobile application with basic functionalities to track health vitals and supported a limited number of wearable devices. However, the existing platform needed to work on several limitations that impacted user experience and business growth. The app's restricted functionality and lack of integration with a broad range of wearable devices hindered its ability to provide a holistic health monitoring solution. Consequently, users were unable to access comprehensive health data, leading to decreased engagement and satisfaction.

Recognizing the critical need to address these shortcomings, Healthgauge sought to modernize their application. They envisioned a platform that could integrate seamlessly with all wearable devices available in the market, offering users a comprehensive view of their health data. To achieve this vision, Healthgauge needed a technology partner with deep industry knowledge and technical expertise to enhance the app's functionality, performance, and user experience.

Healthgauge collaborated with Daffodil Software, renowned for its innovative solutions in the health-tech domain.

### The key requirements were to:

- ✔ Enhance the existing mobile application's features to offer a more comprehensive health monitoring.
- ✔ Create a robust backend infrastructure to handle real-time data synchronization and processing for an enhanced user experience.
- ✔ Develop a real-time dashboard that displays comprehensive health-related information using graphical representations.
- ✔ Implement stringent data security measures to protect users' sensitive health information.
- ✔ Design the application architecture to be scalable and adaptable to future technological advancements and increasing user base.
- ✔ Incorporate AI and predictive analytics capabilities to provide personalized healthcare insights and forecast potential health issues.

Our team undertook a thorough upgrade of the Healthgauge mobile app, turning it into a central hub for health and fitness data from various wearable devices. The development team audited and optimized the existing codebase, which led to significant performance improvements.

Our design team crafted an intuitive interface that seamlessly aligned with the app's existing look and feel. We developed wireframes and mockups to ensure that the new features were user-friendly and accessible to individuals of all technical backgrounds. Once the design received approval, our team employed Flutter to build a robust and scalable UI/UX. We created a strong backend infrastructure to handle real-time data synchronization and processing for an enhanced user experience.

### We recommended and implemented several key features:

#### Integration with wearable devices:

We integrated the app with various wearable devices to monitor health metrics such as sleep, calories, steps, temperature, and oxygen levels. This was crucial to provide a comprehensive health monitoring solution and extend the app's functionality beyond basic tracking.

## The Solution

#### **Graphical data representation:**

To visually represent health data, we included graphs within the app. This feature was designed to simplify the interpretation of health metrics for users, thereby enhancing both user experience and engagement.

#### **AI-driven health insights:**

We integrated an AI algorithm to analyze health data patterns, transforming raw data into actionable insights. This was implemented to help users make more informed health decisions and to provide personalized health recommendations.

#### **Email functionality:**

We added an email service in the app, enabling users to send and receive emails, manage read/unread status, and create contact lists and groups. This feature was incorporated to enhance communication capabilities within the app, providing users with a more integrated experience.

#### **Synchronization with health platforms:**

We enabled the app to export and synchronize health metrics with major platforms like Apple's HealthKit and Google Fit. This was crucial for expanding the app's usability and ensuring users could consolidate their health data across different platforms.

#### **Medication and wellness reminders:**

A new feature was added to send reminders via vibrations to wearable devices, prompting users about their medication, water intake, and the need to stand up. This was implemented to promote better health management and ensure users stay on top of their wellness routines.

The client has established key strategic partnerships in the US to scale market opportunities and better meet the growing demand for their products. These are specifically aimed at helping Healthgauge meet FDA requirements for entering the US marketplace. Team Healthgauge has been extremely pleased with Daffodil's execution of the entire project. The client successfully launched the solution on schedule and to their specifications, as Daffodil ensured timely delivery of high-quality deliverables.

## **The Impact**

## **Have a software product vision in mind?**

**Setup a personalized consultation with our technology expert.**

**Let's Talk**