DRIVING MEDICAL ADVANCEMENTS

Our Role in Crafting the Success Story of a Cancer Care Innovator

HEALTHCARE

INTRODUCTION

Sosaley Technologies, founded in 2008 is an integrated medical devices OEM and global support services player. We have successfully designed and developed a compact, portable & medical grade ECG machine and a sophisticated easy-to-use Automated External Defibrillator (AED).

Our range of services includes design walk-throughs, software development and extensions, maintenance and support for end-of-life medical devices, consumer medical devices, home care devices, wearables, connected devices, as well as assistance with certification and compliance. Sosaley is ISO 13485 (Medical Devices) QMS certified organization.

INTRODUCTION [CLIENT]

The Swedish product development company patented know-how to develop innovation in cancer care through genuine research and clinical trials.. This device facilitates Dynamic Electro Enhanced ChemotherapyTM, leveraging high and low-voltage electric pulses to enhance the effects of chemotherapy by enabling intracellular molecule transfer through cell membranes.

PROBLEM STATEMENT

The Scandinavian company had developed a groundbreaking medical device to enhance the effects of chemotherapy for cancer.

However, the company lacked the necessary software components to integrate with the medical device effectively.

There was a need for a customized operating system, an intuitive graphical user interface, and a multifunctional mobile application to complement the medical device's capabilities.

ROOT CAUSE

The Scandinavian company did not have the bandwidth to develop the required software solutions.

Sosaley, a renowned product development company, identified this gap and approached the Scandinavian company with a proposal to develop the necessary software.

The Scandinavian company needed a reliable partner to create a seamless integration between their hardware and the software ecosystem.

SOLUTION

- Sosaley developed a customized Linux OS specifically designed for the medical device.
- They created a Python-based intuitive GUI using the Tkinter framework, ensuring ease of use for medical professionals.
- Sosaley developed an Android application that combined asset/shipping management and tracking with custom NFC read/write capabilities for accessories management.
- Encryption and decryption were deployed to enhance data security. and digital signatures were implemented to ensure data authenticity.
- The software provided by Sosaley acts as an abstraction layer, seamlessly interacting with the device hardware.

OUTCOME

01 The Scandinavian company benefited from the seamless integration of the software components, enhancing the overall functionality of their medical device.

02 The customized Linux OS ensured the device operated efficiently and reliably, meeting the high standards required for medical applications.

03 The intuitive GUI improved the usability of the device, allowing medical professionals to interact with it effortlessly.

04 The Android application streamlined asset and shipping management while also providing robust NFC capabilities for managing accessories, adding significant value to the device's ecosystem.

05 With these software solutions, the Scandinavian company was able to bring their innovative chemotherapy-enhancing device to market with confidence, knowing it was supported by a solid and reliable software foundation.