

## The Client

Elro Mini is a low-cost, digitally-connected healthcare device that monitors the biological, psychological, and social wellness of the elderly. The device allows the elderly to keep track of their vital signs and accomplish routine tasks such as ordering prescriptions and scheduling doctor's appointments with minimal effort.

**Category :** Healthcare

**Scope :** Industrial Design, Engineering Design, Hardware Design, Prototype and App.



## The Challenge

Elro Mini, being the first and most affordable of Elro's product range, had to cram a lot of core functionalities into a small form-factor. Importantly, the device's design had to appeal to the elderly, and they should be able to understand and operate it with the least amount of effort.

## The Solution

To tackle the aforementioned challenges, our team at Achala Solutions decided to take a straightforward, minimalistic approach whilst keeping Elro's target user group's cognitive capabilities in mind.

The detailing team preserved the visual elements of the concept by minimizing the cost of production through design for manufacturing and design for assembly without any compromise on the robustness required to accommodate the elderly nature of handling new technology.

The electronics team designed and developed the hardware required for the device. They ensured that the developed hardware is compatible with various other products in Elro's portfolio and structurally integrated the AI and the interface to enable the device to work smoothly.

The software team worked on the core solutions offered, some of which are Custom App Development (Voice First), AI-based Customer Voice Assistant (Companion Type), AI-based Telemedicine Platform development, Patient health analytics, Behavior/mood analysis Cognitive adaption, public domain integrations like weather, news, entertainment, traffic, etc.

Some technologies were sourced from the market and customized to suit product requirements, while others were created from the ground up, requiring the team to work on service integrations with providers such as pharmacies, diagnostics, and so on.

## The Result

A thoroughly tested Elro Mini with all the capabilities targeted for this release has recently launched on the market. Achala Solutions helped Elro achieve its goal of providing effortless care to the elderly by the caretakers.