

Success Story

A Mobile solution
to bring the hospital services
to the doorstep



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Client Overview

The client is a pioneer in the realm of home care health services. They have a vast communication channel between thousands of citizens, doctors, medical professionals, pharmacies etc. They offer all levels of home care services from domestic help to skilled level care, and also into final days with hospice. With its unique service mode, the client has served people across all age groups for more than a decade now. To ensure that their services have a wide spread reach and are available throughout the clock, they have made significant investments in adopting latest technologies, tools and systems.

Quick facts

- Industry - Medical
- Geography - US

Business need

The client was a reputed home care service provider with a large client base. In their objective to take clinical health services to the doorstep of citizens and improve their service, they required IT to play a major part. Their focus was on helping senior citizens and those people who would prefer to avail these clinical services from the comfort of their home.

The need was for a solution that allowed the client to-

- **Monitor the vitals of the patients through the devices like the pulse oximeter, thermometer, etc. and store them in a repository, as a part of patient monitoring and record keeping.**
- **If there are any abrupt deviations from the normal readings, the client would like the doctors to respond and attend to the patients from any remote location.**
- **Provide access to the historical records of the patients.**
- **Schedule reminders for consuming medicines.**
- **Locate a doctor in the neighborhood for any particular specialization.**

The client needed a mobile application that can interact with the medical monitoring devices and relay this information to doctors in case of need. The client liked to sell this application as a subscription model to their end customers.

How YASH delivered

YASH consultants studied the requirements of the client and developed a holistic solution. The mobility 'Center of Excellence' (CoE) had architected a mobile solution that is in line with the business vision. The consultants designed a mobile solution for Android platform and delivered it in an agile delivery model. The entire project was delivered under the purview of YASH PMO within the planned timeframe.

All the vitals for monitoring the health of the patient are performed with multiple medical devices like pulse oximeter, thermometer, glucometer, etc. These instruments are integrated to the mobile devices and paired through Bluetooth connectivity. The integration of mobile with these medical devices is through low-level programming done by YASH consultants. The communication between the devices was based on standard protocols. This integration of devices allowed the application to capture all vital information like blood pressure, SPO2, heart rate, glucose levels, pulse and oxygen levels on the mobile. The application allowed automatic scheduling of tests and has the capability to monitor multiple parameters at once. It is also designed with an alarm feature such that if any critical parameters were breached during testing, an alert was automatically sent to the doctors in a remote location for advice. The solution allowed multi-language support.

To maintain a record of the patient history, the consultants designed the solution to store the data over a cloud platform. The data is stored in a database which was hosted on the Amazon web services (AWS) cloud. This hosting solution ensured that there was no need for any additional IT hardware on premise. Also, data is available in real-time to doctors for any quick medical response needs.

The application has the capability to provide notifications, as it was developed as a native mobile application. Hence, even when the customer does not open the application, it could provide notifications to the end users. It has scheduled reminders for consuming medicines by the end users.

This application is available on Android platform and is based on a subscription model to the end users. For a particular subscription, the application along with a set of devices are provided free of cost. This application is available free of cost for the physicians to attend to the requests of the client.

Technologies

- Android SDK
- CodeIgniter
- Amazon Web Services (AWS)

Outcome & business benefits

- Senior citizens were able to monitor their health from the comfort of their homes.
- Free doctor consultation available as a part of the subscription model.
- Automatic alarms when any critical monitoring parameters are breached provided comfort to the patients.
- Easily track the vital information of the patient and the history is readily available to the physicians.
- There is a 15% growth in number of users.
- The whole database is hosted on the cloud and hence no need for any additional hardware at the client premise.



**For more information contact YASH today
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About YASH Technologies

YASH Technologies focuses on customer success. As a leading technology services and outsourcing partner for large and fast growing global customers, the company leverages technology and flexible business models to drive innovation and value throughout its customer's enterprise. YASH customer centric engagement and delivery framework integrates specialized domain and consulting capabilities with proprietary methodologies and solution offerings to provision application, infrastructure and end user focused Right-Sourcing services. YASH is a SEI CMMI (Level 5) and an ISO 9001:2015 certified company with U.S. and India headquarters and regional sales and development offices globally with customers spread across 6 continents.



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