



# Sevaro Health – Tele-stroke app

USA based Healthcare startup



## Case Study

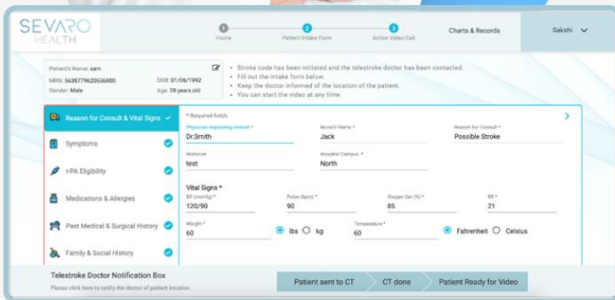


### Client Overview

- North America based Leading Neurologist.
- Healthcare Startup to offer quick treatment to Healthcare patients.

### Current System

- Patient receives **treatment only after reaching the hospital.**
- **Critical time loss** happens, which if avoided could minimise the stroke impact.



## Methodology



### Business Goals

Value proposition  
Prioritisation



### Requirements

Scope definition  
Wireframing



### Technical design

Technology stack  
Application architecture  
High level technical design



### Project Planning

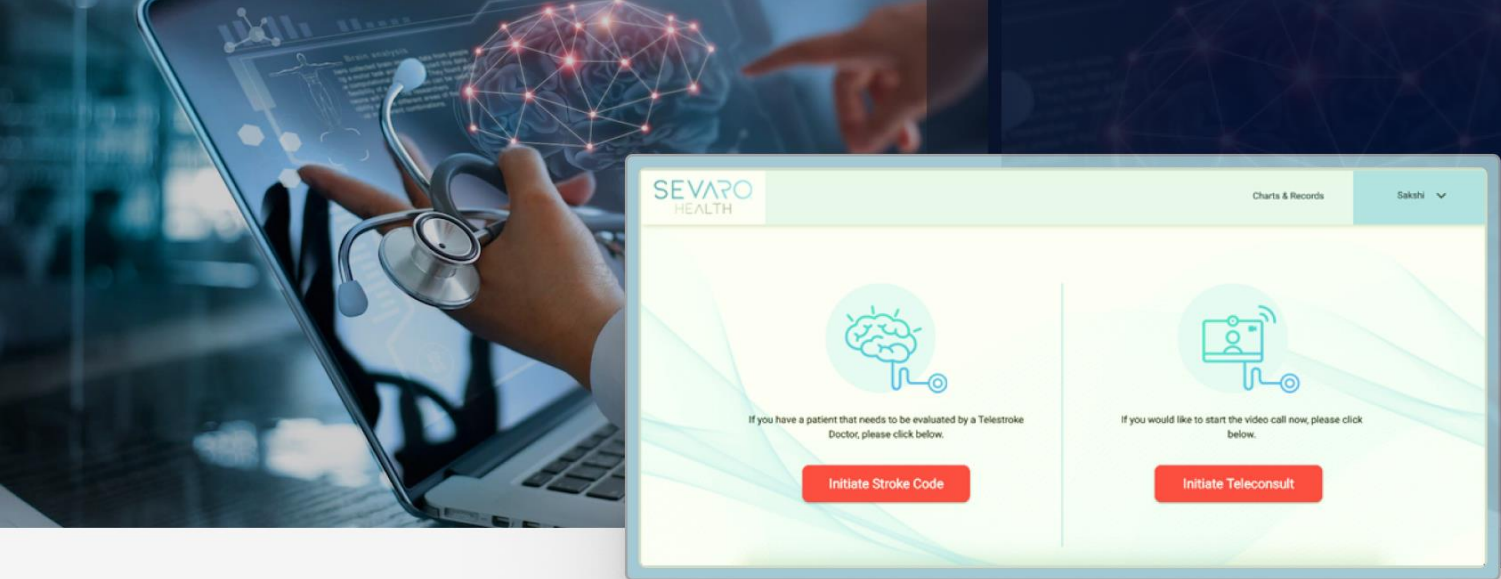
Epics  
Stories  
Tasks



### Execution

Milestones  
Sprint planning

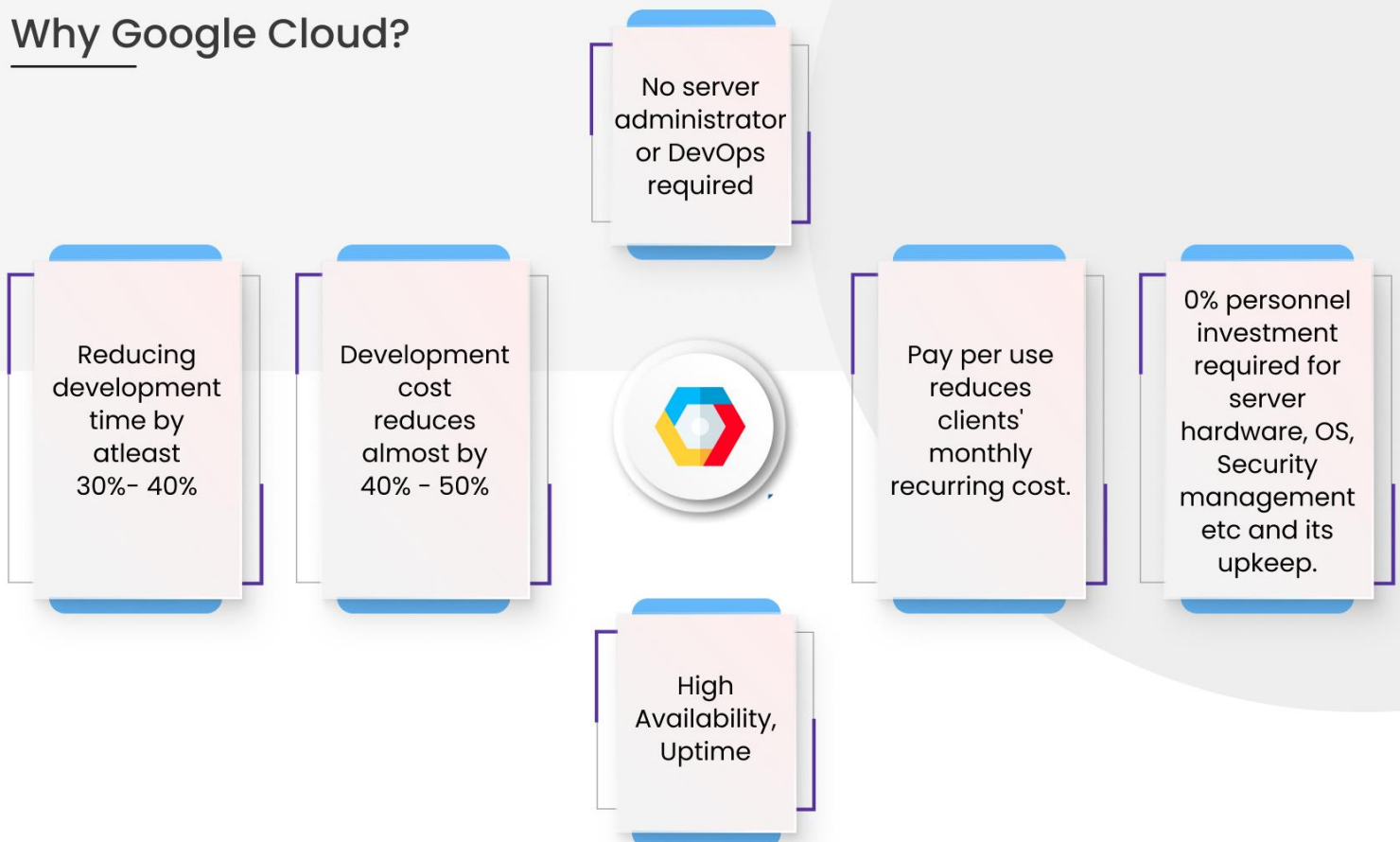
This helped the client to identify the shortcomings at early stage of development



## Our Solution

- Designed a Secure, Simple and Scalable cloud based real-time 2-way video conference solution.
- Interfaces designed for nurses and doctors.
- Dashboard for doctor to see incoming, waiting, missed, active calls list.
- Call back feature for missed calls. Email, SMS, desktop notifications.
- Ability to add notes and digitally sign the call. Track user activity log.
- Only patients diagnosed by Doctor A visible to Doctor A, all other data is masked.
- Data collection parameters grouped into different sections as per NIHSS. Visual indication if anything missed out.
- HIPAA, FHIR, HL7 compatible.
- Initiate stroke code or Start Teleconsult—options on home page.

## Why Google Cloud?







## Tools & Technologies



Node.js



Flutter



Firestore

- **Serverless** architecture on **Google PAAS**
- **NoSQL** database **Firestore**
- **Cloud Functions** developed in **NodeJS**
- Front end built in **Angular JS**
- App developed in Cross platform open-source mobile UI framework – **Flutter**

## Business Impact

- **Immediate Treatment** to the stroke patient even in remote area possible.
- **Not dependent** on availability of one doctor, as the notification goes to the group.
- **Treatment plan** ready by the time the patient arrives at hospital.
- Future integration of **PTZ** cameras.

## ZingWorks LLP



📍 233 B, Sadashiv Peth,  
Pune 411030, India.

✉ info@zingworks.in

🌐 <https://zingworks.in/>

