

Client Overview

- North America based Experienced physician
- Extensive practice in neurointervention and neuroradiology
- Healthcare Startup for Imaging studies

Current System

- CD/DVD bought by patient is copied by the doctors office staff to common drive
- Takes about 30-45 mins to copy the data
- CD/DVD sometimes unreadable
- Sometimes CD/DVD drive not available in doctor's office

Methodology





Our Solution

- Developed Secure, Simple and Scalable cloud based web app to upload imaging studies -Dicom, Radonc files from users location.
- KISS (Keep it Simple, Stupid) Design principle was adopted for the broad spectrum of patients and hospital as end users.
- Bulk upload of files in background (in 1000's) and size (in multiple GB's);
 enabling user to continue using other app features.
- System auto-detects the body part and modalities from the metadata. Creates respective folders. Filters out non Dicom files.
- · Imaging study viewed online on mobile or desktop. No need to download locally.
- Ability to copy, share over email / phone; Track user activity log.
- HIPAA, FHIR, HL7 compatible.

Why Google Cloud



Reducing development time by atleast 30%- 40%

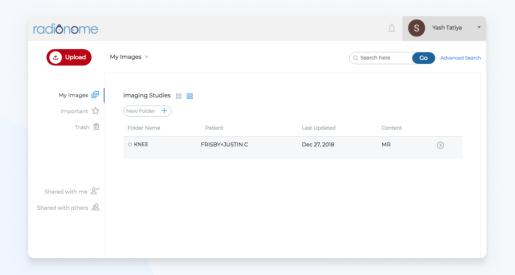
Development cost reduces almost by 40% - 50%

No server administrator or DevOps required

04
High
Availability,
Uptime

0% personnel investment required for server hardware, OS, Security management etc and its upkeep.

Pay per use reduces clients' monthly recurring cost.









Node.Js

Firestore

Tools & Technologies

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

Business Impact

- Doctor no longer waits for the imaging data to be retrieved from the CD/ DVD.
- Ease of sharing with peers, colleagues, for second opinion.
- · Data available for lifetime.
- Further integration with PACS, blockchain possible.

ZingWorks LLP









