We **advance** and **innovate** your business with digital transformation

DOCUMENT MANAGEMENT IN HEALTHCARE

Objective of the project: Update an app for easy document management in healthcare by introducing new functions.

Our customer is a company which brings together doctors, scientists and engineers who are focused on improving communication between sites and sponsors. The key to achieve that is by solving narrow tasks on sites. The results that are obtained enable sponsors to conveniently monitor site processes in order to cut their costs and to reduce uncertainty between visits. In this way, our customer strengthens sponsor-site relations while boosting compliance.

Challenge

The company's app was under active development. The client wished to extend the app functionality with these features:

- Editing Microsoft Office documents
- Upload / download file structure
- Uploading files to the system using e-mail
- DevOps services
- Protection of personal information (POPI)
- Printing / faxing documents
- Implementing pass-through authentication (Single Sign-On)

INPUT

Lab faxes

EHR print outs

Case report forms

E-mail

Regulatory forms

Scan

EDIT

Collect Redact Review Sign

Send

Remote monitoring Remote close out Site analytics

DISTRIBUTE





Solution

This is what we introduced to reach the client's goals:

- Integration with Microsoft Office 365 (WOPI)
- POPI: converting documents (including both pdf and rtf) to a tuple of images
- POPI: option for editing images and downloading them as a pdf file)

Upload / download file structure

module (node fs, zlib)

- service (for printing / faxing)

Integration with the Scrypt Sfax

- Integration with MailGun (uploading files via e-mail)
- End user authentication (SAML)
- Continuous integration: Jenkins + Docker + AWS infrastructure

Key features

As a result, the application now has a number of advantages:



documents (editing, uploading & downloading, printing & faxing and implementing pass through authentication (Single Sign On))

Automated workflow for an institution's



Personal information protection





Integration with Microsoft Office 365, the Scrypt Sfax service and MailGun



Possibility of converting files to a tuple of images



Possibility of editing images and downloading them as a pdf file

Technologies

Javascript

Server Side:

Node.jsHapiMongoose

mongodb

DB:

Front Side:

JavascriptAngular.js 1.5HTMLCSS

SAML

Other:

Jenkins

Microsoft Office 365 (WOPI)
Scrypt Sfax
MailGun

AWSDockerPM2