instinctools

Document Management System For a Healthcare Company

How adopting new features empowered a HealthTech company to take their DMS software to the next level, **fully automate** document management, and put an extra coat on **personal information protection**.

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	EDIT		DISTRIBUTE
EHR print outs	Collect		
Lab faxes	Redact	Remote monitoring	
Case report forms	Review	Remote close out	
E-mail	Sign	Site analytics	
Regulatory forms	Send		
Scan			

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)
- Integration with the Scrypt Sfax service (for printing / faxing)
- Integration with MailGun (uploading files via e-mail)
- End user authentication (SAML)
- Continuous integration: Jenkins + Docker + AWS infrastructure
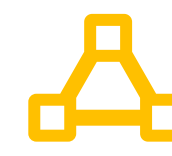
Key features

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

Automated workflow for an institution's documents (editing, uploading & downloading, printing & faxing and implementing pass through authentication (Single Sign On))

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

Server Side:
- Javascript
- Node.js
- Hapi
- Mongoose

DB:
- mongodb

Front Side:
- Javascript
- Angular.js 1.5
- HTML
- CSS

Other:
- Microsoft Office 365 (WOPI)
- Scrypt Sfax
- MailGun
- SAML
- Jenkins
- AWS
- Docker
- PM2

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