DICOM Previewer

Overview

The DICOM previewer functionality will allow us to store DICOM Images (X-Ray, CT Scan, MRI, etc.) and allow Pathfinders and their Doctors to view and download these images. DICOM is a standard that all medical images use, and so by building this previewer into our product, we will be able to use it for all current and future diseases where medical imaging of any kind is important. Giving Pathfinder's the ability to store all of their medical images in one place that they can access at any time adds significant value to our product, and enables them to receive better care from their providers.

Goals

The Goals of the DICOM Previewer functionality are:
- Upload and Store DICOM files for Pathfinder
- Allow Pathfinders to view DICOM images
- Allow Doctors to view DICOM images
- Allow Doctors to mark DICOM images as important
- Allow Pathfinders to Download the DICOM frames as image files
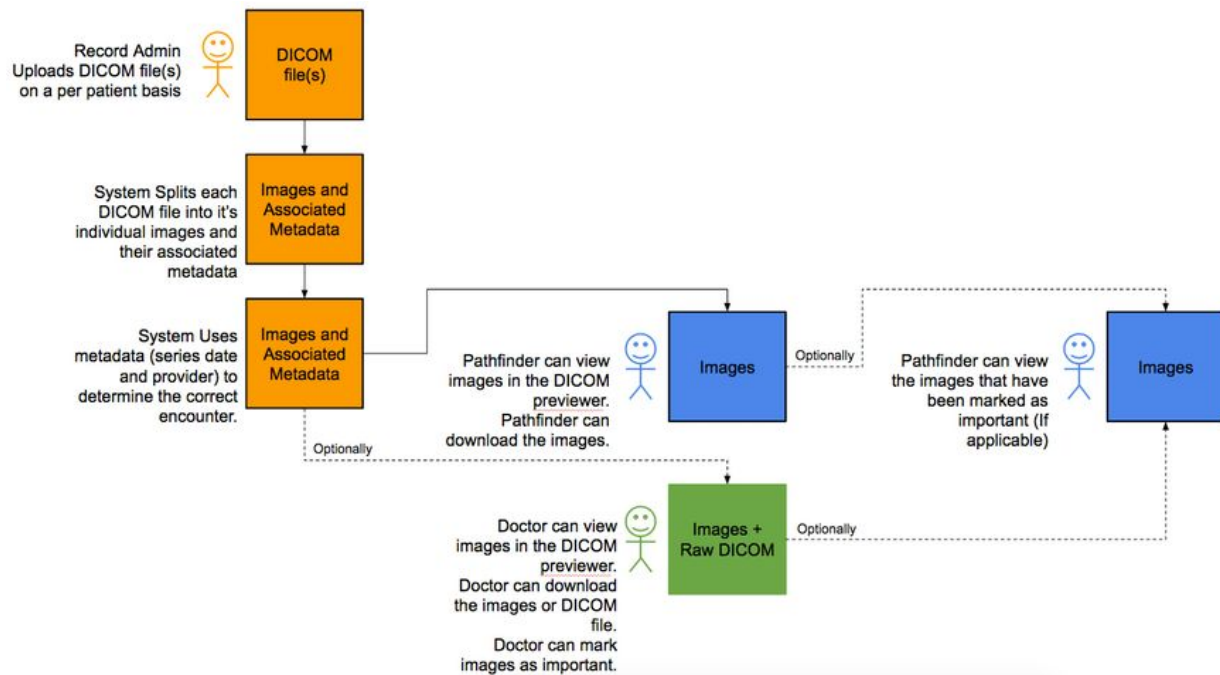- Allow Doctors to Download the DICOM frames as image files or raw DICOM file

Use Cases

- Record Admin Uploads DICOM file
- Pathfinder views DICOM file
- Doctor Marks DICOM image as important
- Pathfinder Downloads DICOM images frames as image files
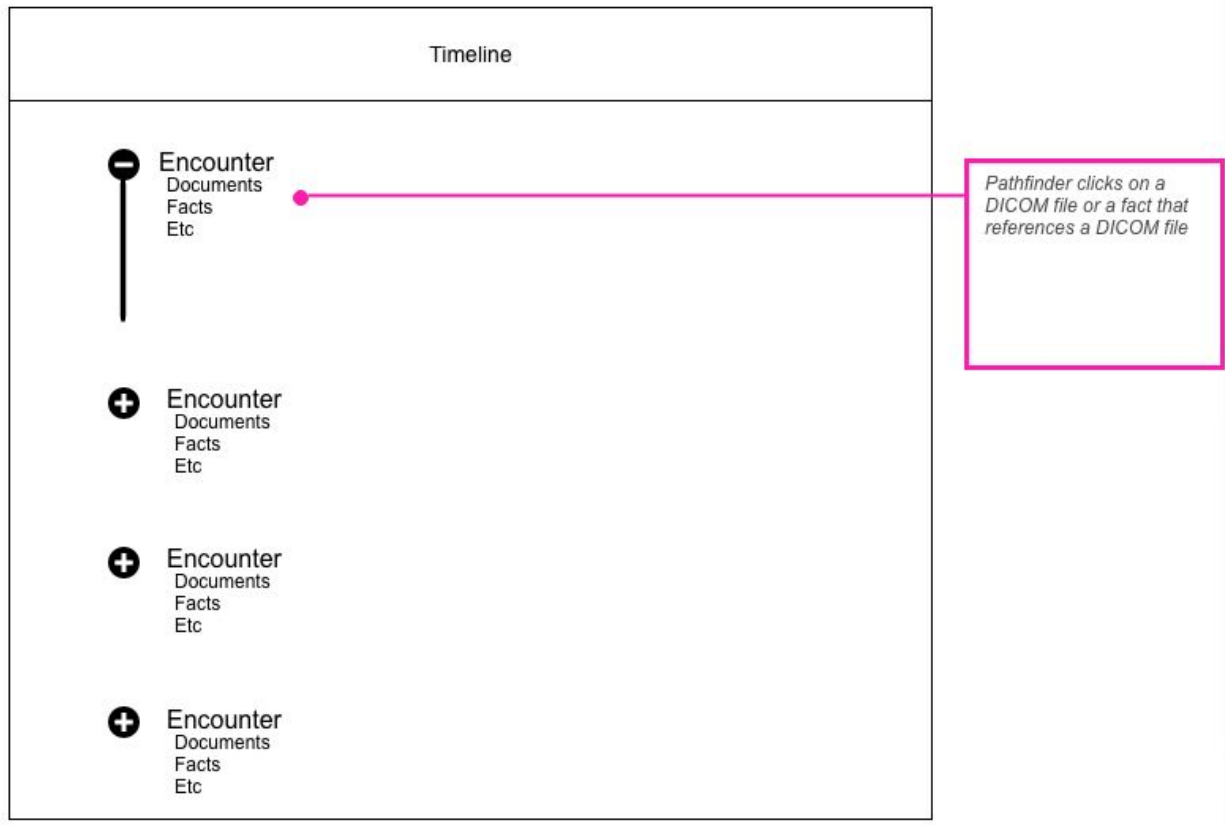- Doctor Downloads DICOM file

Non-Goals/Open Issues

- This is not a full DICOM viewer and is not intended to be used as the primary tool a doctor would use for studying radiology images.

Flowchart

Screen Specification

Pathfinder or Doctor clicks on a DICOM file

Pathfinder or Doctor views DICOM previewer in split screen view

Doctor downloads DICOM file

Doctors have a slightly different DICOM previewer. The main changes are their ability to mark images as important, and to download the raw DICOM file.

DICOM Image Title 🔍 🔍 ✕

⊕ Download Images   Download DICOM

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Record
Documents
DICOM files

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Should show:
•which images are loaded/not loaded
•which (if any) images have been marked as important
•need ability to mark a frame as important/relevant