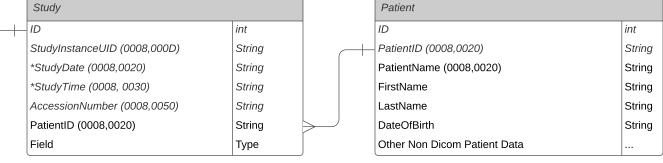# BBImaging Technical Assessment -- Data Model

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This data model is based on my knowledge of the Dicom Standard as it pertains to my experience primarily with MGs and CTs. I'm assuming the UltraSounds are such that the frames can be identified by the size of the individual frames in the PixelData. I recognize however that this may require a different approach that is time based. I'm not familiar yet with time based dicoms and would need more time to develop a solution for this particular data model.

Study

ID	int
StudyInstanceUID (0008,000D)	String
*StudyDate (0008,0020)	String
*StudyTime (0008, 0030)	String
AccessionNumber (0008,0050)	String
PatientID (0008,0020)	String
Field	Type

• Optionally, StudyDate and StudyTime could be stored as one as EpochTime

Patient

ID	int
PatientID (0008,0020)	String
PatientName (0008,0020)	String
FirstName	String
LastName	String
DateOfBirth	String
Other Non Dicom Patient Data	...

Series

ID	int
StudyID	int
SeriesInstanceUID	String
SOPClassUID (0008,0016)	String
SOPInstanceUID (0008,0018)	String
Modality (0008,0060)	String
NumberOfFrames (0028,0008)	int
SamplesPerPixel (0028,0002)	int
BitsAllocated	int
BitsStored	int

Annotations

ID	int
SeriesID	int
FrameNumber	int?
Label	String
Text	String
AnnotationTemplate	String
ToolType	String
Coordinates	String