

## DICOM Viewer Project

### Description

Build a desktop application that views a DICOM file and access the patient data.

The user of the *DICOM Viewer* should be able to:

- Browse a DICOM file from his PC
- See the DICOM file information; patient data, modality data, study information
- View the DICOM image in axial, coronal and sagittal plans
- Can use the slider to move around DICOM image slices
- Can make segmentation of bones
- Can take x,y,z as an input then make slice of these positions of planes (to output xy,xz,yz)

You should use python as the back-end technology and the front-end technology to build you

user interface.

### Grades Rubric

Sections	Sub Sections	Task	Grade
DICOM Basic Project	User Interface	3 Widgets/Canvas for axial, coronal, and sagittal	15
		Patient Information	10
	Functionality	Browse the DICOM file	10
		View DICOM Information	10
		View DICOM Image axial, coronal, and sagittal	20
		Slide between slices	10
		Segmentation of bones	15
		Slicing planes(x,y,z)	10
Total			100
Bonus	Good UI Design		10
	View the 3D DICOM Image in the 4 <sup>th</sup> Widget/Canvas		20
Total + Bonus			130

### Submission

Project Group: Maximum 5 students per group