Setup Manual

First, download the following files into this structure

1. WebApp (project folder)
   1. static (folder)
      1. Aligned\_DICOM
         1. adc
         2. highb
         3. t2
      2. Javascripts
         1. homepage.js
         2. jquery.js
         3. viewer.js
      3. JPG\_converts
         1. adc
         2. highb
         3. t2
      4. uploads
         1. adc
         2. highb
         3. t2
   2. templates (folder)
      1. PIRADS\_webAI.html
   3. app.py
   4. Alignment.py

Black means folder

Blue means Javascript

Green means HTML

Red means python

Setup

Find the app.config’s in app.py and use ctrl-R (replace) to change every “r'C:\Users\MSStore\” to the directory location for the WebApp project folder.

app.config["UPLOADS"] = r'C:\Users\MSStore\WebApp\static\uploads'  
app.config["adc\_UPLOADS"] = r'C:\Users\MSStore\WebApp\static\uploads\adc'  
app.config["highb\_UPLOADS"] = r'C:\Users\MSStore\WebApp\static\uploads\highb'  
app.config["t2\_UPLOADS"] = r'C:\Users\MSStore\WebApp\static\uploads\t2'  
  
app.config["JPG"] = r'C:\Users\MSStore\WebApp\static\JPG\_converts'  
app.config["adc\_JPG"] = r'C:\Users\MSStore\WebApp\static\JPG\_converts\adc'  
app.config["highb\_JPG"] = r'C:\Users\MSStore\WebApp\static\JPG\_converts\highb'  
app.config["t2\_JPG"] = r'C:\Users\MSStore\WebApp\static\JPG\_converts\t2'  
  
app.config["ALIGNED"] = r'C:\Users\MSStore\WebApp\static\Aligned\_DICOM'  
app.config["adc\_ALIGN"] = r'C:\Users\MSStore\WebApp\static\Aligned\_DICOM\adc'  
app.config["highb\_ALIGN"] = r'C:\Users\MSStore\WebApp\static\Aligned\_DICOM\highb'  
app.config["t2\_ALIGN"] = r'C:\Users\MSStore\WebApp\static\Aligned\_DICOM\t2'

Usage

Run app.py and then follow the provided link to the local host server. For the best results use Google Chrome. Other web-browsers may result in various bugs and errors. Also, use the google console to see some of the background processes.

Default page

When the webpage is loaded, all DICOM and JPG files on the server - located in adc, highb, and t2 folders - are deleted. The placeholder image is drawn by default. It has a box drawn in it with coordinates marked. Try tracing the box with the drawing utility, then press submit and confirm that the correct coordinates were received by the server by checking the python run window.

Uploading and navigating

Upload test files in the form of raw dicoms by dragging and dropping the respective adc, highb, and t2 folders into the respective upload boxes on the webpage. It may take a few seconds for processing to finish before they appear on the viewer windows. Use the next/previous buttons and scrolling to navigate the images.