

Pre-Interview Test

1. Download and install the Leadtools Medical Imaging SDK from the internet
2. Open a file which has custom file format whose details are given below. The image file can be downloaded from <http://www.mediafire.com/file/i10vvsuvt3lm7o/test.vmi/file>
3. Write a program to open the file and then display it inside of a UI that you should create
4. Add the ability to pan, zoom and rotate the image
5. Add the ability to apply a filter and take it off from the image. The recommendation is to add an emboss filter
6. You are not allowed to use/modify any of the Leadtools demos to achieve the required functionality
7. Use C#/WPF for UI and either .NET standard or .NET Core

VMI file header

```
public struct VMIHeader
{
    public float versionNumber;
    public int imageHeight;
    public int imageWidth;
    public int imageBPP;
    public int imageDataOffset;
    public int imageSize;
    public int imageDPI;
    public int angle;
    public int window;
    public int level;
    public double magnification;
    public float pmtVolt1;
    public float pmtVolt2;
    public float laserPower;
    public float resolution;
    [MarshalAs(UnmanagedType.ByValTStr, SizeConst = 10)]
    public String serialNumber;
    [MarshalAs(UnmanagedType.ByValTStr, SizeConst = 25)]
    public String createDate;
    public int viewPerspective;
};
```

Deliverables

1. An exe that can open the file and have an interface with all the functionality described above
2. A copy of the source code