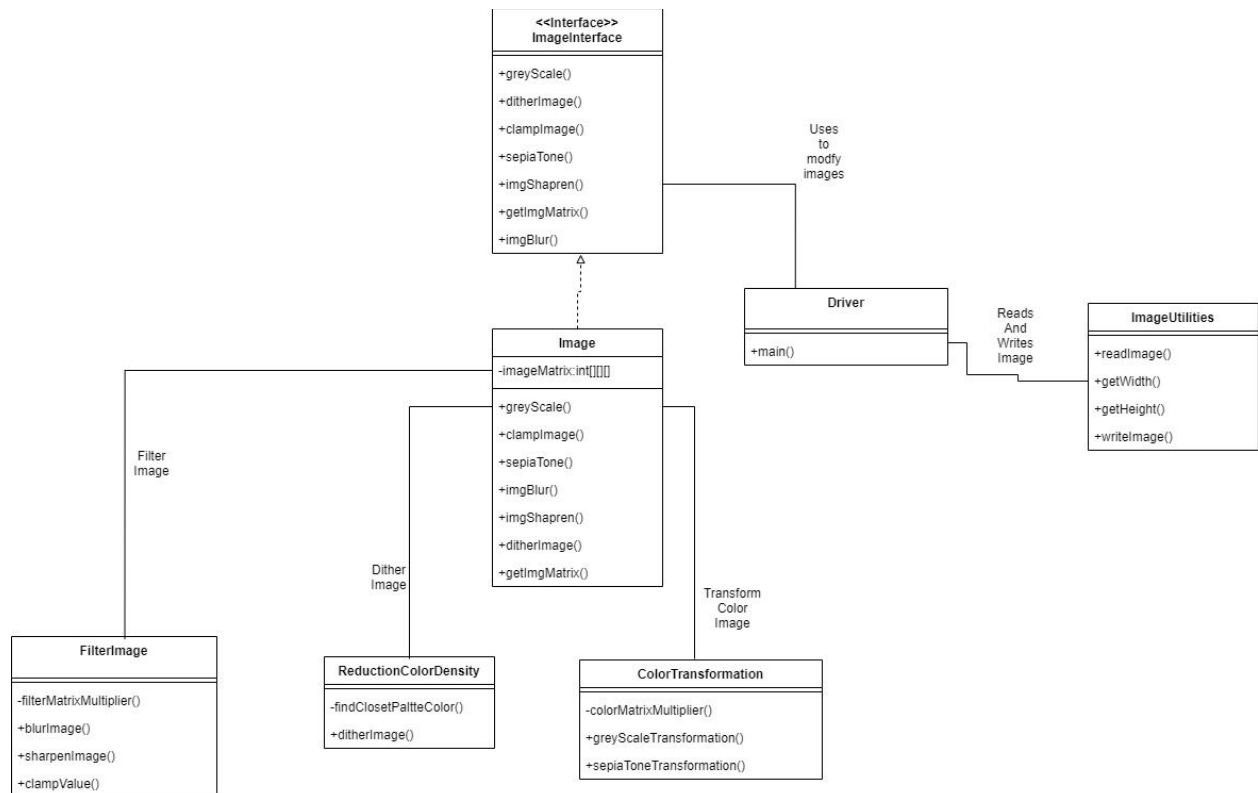


Project 3:Image Model

Uml diagram:



Test cases:

Test Cases for blurImage

Test Case for blurImage		Expected output
Checking for null values	<code>blurImage(null)</code>	<code>IllegalArgumentException</code>
Checking for valid calculation of image	<code>blurImage([[16,32,16][16,16,16][16,16,16]])</code>	<code>[[1,4,1][2,4,2][1,2,1]]</code>

Test Cases for SharpenImage

Test Case for sharpenImage		Expected Output
Checking for null values of	<code>sharpenImage(null)</code>	<code>IllegalArgumentException</code>

image		
Checking for valid calculation	sharpenImage([8,8,8,8,8],[8,8,8,8,8],[8,8,8,8,8],[8,8,8,8,8],[8,8,8,8,8])	[-1,-1,-1,-1,-1],[-1,2,2,-1],[-1,2,8,2,-1],[-1,2,2,-1],[-1,-1,-1,-1,-1]

Test cases for clamping values

Test Cases for clamping values		Expected Output
Checking for null values of image	clampValue(null,2,4)	IllegalArgumentException
Clamping for higher values	clampValues([8][8][2],4,1)	[[4],[4],[2]]
Clamping for lower values	clampValues([8][8][2],8,3)	[[8][8][3]]
Clamping for lower and higher values together	clampValues([8][8][2],7,3)	[[7][7][3]]

Test cases for gre scale color transformation

Testing for greyScale Transofrmation		Expected Output
Checking for null values of image	greyScaleTranformation(null)	IllegalArgumentException
Checking for calculation of greyScales	greyScaleTransformation([10][10][100])	[[2.126][7.152][7.2]]

Checking for sepia tone transformation

Testing for sepiaTone Transofrmation		Expected Output
Checking for null values of image	sepiaTranformation(null)	IllegalArgumentException()
Checking for calculation of sepia tone calculation	sepiaTransformation([1][1][1])	[0.393][0.769][0.189]

Checking for calculation of reducing color density

Testing for reducing color density		Expected Output
Checking for null values.	<code>reduceImageColor(null,8)</code>	<code>IllegalArgumentException</code>
Reducing to few colors	<code>reduceImage([1,2,3][1,2,3][1,2,3])</code>	<code>[2,2,2],[2,2,2],[2,2,2]</code>