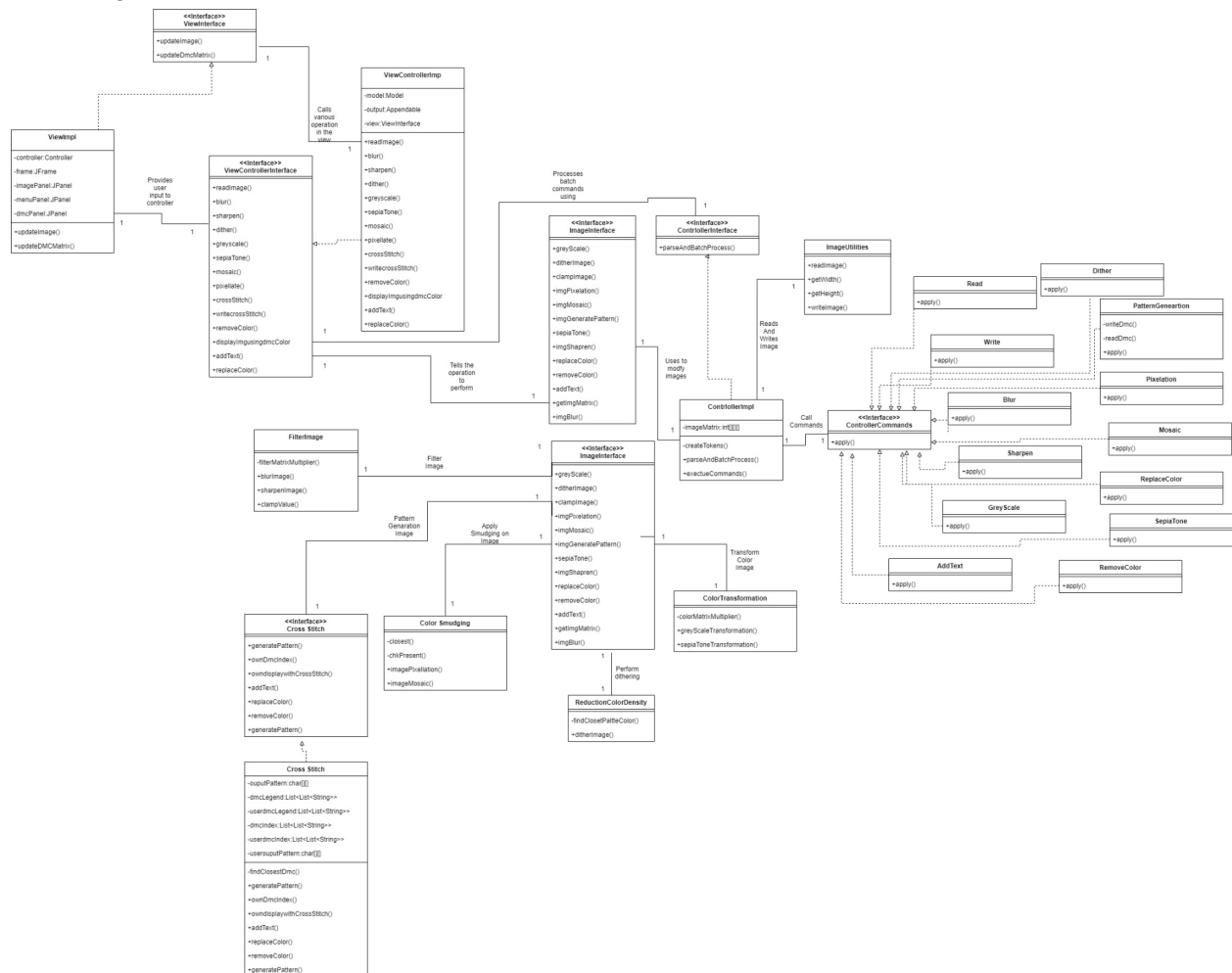Project 5 design document

UML diagram

Testing plan:

Testing the Batch command controller

Test Case for controller		Expected output
Test read command	controller.parseAndProcess(new StringReader("READ input.jpg"), output);	IMAGEREAD
Test write	controller.parseAndProcess(new StringReader("WRITE output.jpg"), output);	IMAGEWRITE

Test Greyscale	controller.parseAndProcess(new StringReader(Commands.GREYSCALE.toString()), output);	GREYSCALE
Test Sepia tone	controller.parseAndProcess(new StringReader(Commands.SEPIATONE.toString()), output);	SEPIATONE
Test sharpen	controller.parseAndProcess(new StringReader("SHARPEN"), output);	SHARPEN
testblur	controller.parseAndProcess(new StringReader(Commands.BLUR.toString()), output);	BLUR
Test dither	controller.parseAndProcess(new StringReader("DITHER"), output);	DITHER
Test mosiac	controller.parseAndProcess(new StringReader("MOSAIC 1650"), output);	MOSIAC
Test pixelation	controller.parseAndProcess(new StringReader("PIXELLATE 1650"), output);	PIXELLATION
Test cross stitch.	controller.parseAndProcess(new StringReader("CROSSTITCH"), output);	CROSSSTITCHPERFORMED
Test writing cross stitch	controller.parseAndProcess(new StringReader("WRITECROSSTITCH a1.jpg"), output);	WRITECROSSSTITCHFILE

Testing for remove cross stitch color.	controller.parseAndProcess(new StringReader("REMOVECOLOR 3317"), output);	REMOVEDDMC
Testing for replace cross stitch color.	controller.parseAndProcess(new StringReader("REPLACECOLOR 2 2 3317"), output);	REPLACEDDMC
Testing for invalid parameter.	controller.parseAndProcess(new StringReader("MOSAIC -2"), output);	IllegalArgumentException.class
Testing for invalid parameter.	controller.parseAndProcess(new StringReader("PIXELLATION -2"), output);	IllegalArgumentException.class
Testing for invalid command.	controller.parseAndProcess(new StringReader("ABCD"), output);	IllegalArgumentException.class

2.)Testing for view controller

Test Case for controller		Expected output
Testing read operation from view.	ViewInterface view = new MockView("IMAGEREAD"); controller.setView(view);	VIEWSETFEATURES IMAGEREAD SETVIEW VIEWSETIMG
Testing write operation from view.	ViewInterface view = new MockView("IMAGEWRITE"); controller.setView(view);	VIEWSETFEATURES IMAGEWRITE
Testing blur operation from view.	ViewInterface view = new MockView("BLUR"); controller.setView(view);	VIEWSETFEATURES IMAGEREAD BLUR VIEWSETIMG
Testing sharpen operation	ViewInterface view = new	VIEWSETFEATURES

from view.	MockView("SHARPEN"); controller.setView(view);	IMAGEREAD SHARPEN VIEWSETIMG
Testing dither operation from view.	ViewInterface view = new MockView("DITHER"); controller.setView(view);	VIEWSETFEATURES IMAGEREAD DITHER VIEWSETIMG
Testing batch script execution operation from view.	ViewInterface view = new MockView("BATCHSCRIPTEXECUTED"); controller.setView(view);	VIEWSETFEATURES IMAGEREAD SETVIEW VIEWSETIMG
Testing grey scale operation from view.	ViewInterface view = new MockView("GREYSCALE"); controller.setView(view);	VIEWSETFEATURES GREYSCALE SETVIEW VIEWSETIMG\n",
Testing sepia tone operation from view.	ViewInterface view = new MockView("SEPIATONE"); controller.setView(view);	VIEWSETFEATURES IMAGEREAD SEPIATONE VIEWSETIMG
Testing pixellation operation from view.	ViewInterface view = new MockView("PIXELLATION"); controller.setView(view);	VIEWSETFEATURES IMAGEREAD PIXELLATION VIEWSETIMG
Testing cross stitch operation from view.	ViewInterface view = new MockView("CROSSSTITCHPERFORMED"); controller.setView(view);	VIEWSETFEATURES CROSSSTITCHPERFORMED SETVIEW VIEWSETIMG VIEWCROSSSTITCH
Testing writing cross stitch operation from view.	ViewInterface view = new MockView("WRITECROSSSTITCHFILE"); controller.setView(view);	VIEWSETFEATURES WRITECROSSSTITCHFILE
Testing remove dmc	ViewInterface view = new	VIEWSETFEATURES

operation from view.	MockView("REMOVEDDMC"); controller.setView(view);	REMOVEDDMC SETVIEW VIEWSETIMG VIEWCROSSSTITCH
Testing replace dmc operation from view.	ViewInterface view = new MockView("REPLACEDDMC"); controller.setView(view);	VIEWSETFEATURES VIEWREPLACEDMCCOLOR VIEWGETREPLACECOLOR REPLACEDDMC SETVIEW VIEWSETIMG
Testing add text operation from view.	ViewInterface view = new MockView("ADDTEXT"); controller.setView(view);	VIEWSETFEATURES ADDTEXT SETVIEW VIEWSETIMG,
Testing for null input in add text.	viewcontroller.addText(null);	IllegalArgumentException
Testing for null input in write dmc.	viewcontroller.writeDmcFile(null);	IllegalArgumentException
Testing for null input in write image.	viewcontroller.writeImage(null);	IllegalArgumentException
Testing for null input in batch commands.	viewcontroller.executeBatchCommands(null);	IllegalArgumentException
Testing for null input while creating a new dmc index.	viewcontroller.newDmcIndex(null);	IllegalArgumentException
Testing for null input while setting up a replace command.	viewcontroller.setUpReplaceColorcolor(null);	IllegalArgumentException