**Cross Stich Controller Testing Plan**

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| S.No | Description | Test Case | Expected |
| 1 | Load the file by giving file name as “Test.png”and verify result by log.toString() and out.toString() | TestLoad() | Log.toString() = Filename: Test.png and UniqueCode: 12345  Out.toString() = load command is executed.\n |
| 2 | Save the image file by giving file name “Test.png” and verify result by log.toString() and out.toString() | TestSaveImage() | Log.toString() = Filename: Test.png and UniqueCode: 12346  Out.toString() = save command is executed.\n |
| 3 | Grayscale the image and verify result by log.toString() and out.toString() | TestGrayScale() | Log.toString() = UniqueCode: 12347  Out.toString() = grayscale command is executed.\n |
| 4 | Sepia the image and verify result by log.toString() and out.toString() | TestSepia() | Log.toString() = UniqueCode: 12348  Out.toString() = sepia command is executed.\n |
| 5 | Blur the image and verify result by log.toString() and out.toString() | TestBlur() | Log.toString() = UniqueCode: 12349  Out.toString() = blur command is executed.\n |
| 6 | Sharpen the image and verify result by log.toString() and out.toString() | TestSharpen() | Log.toString() = UniqueCode: 12350  Out.toString() = sharpen command is executed.\n |
| 7 | Dither the image by giving 2 values per channel and verify result by log.toString() and out.toString() | TestDither() | Log.toString() = noOfColorsToReduceTo: 2 and UniqueCode: 12351  Out.toString() = dither command is executed.\n |
| 8 | Mosaic the image by giving number of seeds as 6600 and verify result by log.toString() and out.toString() | TestMosaic() | Log.toString() = noOfSeeds: 6600 and UniqueCode: 12352  Out.toString() = mosaic command is executed.\n |
| 9 | Pixelate the image by giving number of squares across width as 30 and verify result by log.toString() and out.toString() | TestPixelate() | Log.toString() = noOfSquaresAcross: 30 and UniqueCode: 12353  Out.toString() = pixelate command is executed.\n |
| 10 | Pixelate the image by giving number of squares across width as 30 and verify result by log.toString() and out.toString() | TestPixelate() | Log.toString() = noOfSquaresAcross: 30 and UniqueCode: 12353  Out.toString() = pixelate command is executed.\n |
| 11 | Generate the cross-stitch pattern and verify result by log.toString() and out.toString() | TestPattern() | Log.toString() = UniqueCode: 12354  Out.toString() = pattern command is executed.\n |
| 12 | Save the cross-stitch pattern by giving file name as Test.txt and verify result by log.toString() and out.toString() | TestPattern() | Log.toString() = Filename: Test.txt and UniqueCode: 12355  Out.toString() = savePattern command is executed.\n |
| 13 | Give Invalid command as saveImage | TestInvalidCommand() | Should through IllegalArgumentException |
| 14 | Pass parameter in as null to controller object | TestNullIn() | Should through NullPointerException |
| 15 | Pass parameter out as null to controller object | TestNullOut() | Should through NullPointerException |
| 16 | Pass parameter model as null to start() of controller object | TestNullModel() | Should through NullPointerException |