SRP Cards Kell L.

Format is as follows:

	[Name of Class] Single Responsibility Principle Card		[if it extends/etc.] [classes i	relevant]
The	[Name of Class]	[Action the class does]		Itself.
The	[Name of Class]	[Action the class does]		Itself.

Notes:

- Exception classes are not given SRP cards, because they do nothing more than super(), or super(msg).
- Two different projects are documented, the main capstone project, and a modified library used.
- DNE stands for "Does Not Extend", means it does not extend, implement, etc.
- Descriptions for the classes (desc: [...]) act as a way of showing the single responsibility of each class
- PortDropDownMenu and PortDropDownMenuFX do not violate the DRY rule, because one is tailored for Swing and the other JavaFX
- Uses the JSerialComm library, with an additional layer on top.

CapstoneV0_095	desc: The main capstone project
app_Controller	
CapstoneMain.java	desc: The main class, launches javaFX application
Kaizen_85.java	desc: Custom logger, prints string array to file
backend_Models	
ExamplePattern.java	desc: Example class for creating new patterns
GeneralSettingsException.java	desc: Thrown when settings are not set properly
Pattern.java	desc: Basic framework to create patterns
Pixel.java	desc: Stores color values, and LED index
PixelValueException.java	desc: Pixel throws if set value over 255, below 0
SerialComms.java	desc: Sends strings over serial to the arduino
frontend_ViewController	
InitPopup.java	desc: A popup to get setting before main window
MainViewDisplayFX.java	desc: The Main window GUI
ViewController.java	desc: Connection between MainView and Patterns

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Settings.java

SerialPortConverter.java

AlertBox.java desc: Makes a Swing popup, with a message given desc: Simplifies serial communication Arduino.java PortDropDownMenu.java desc: Dropdown menu for serial ports, Swing type PortDropDownMenuFX.java desc: Dropdown menu for serial ports, javaFX type desc: helper for PortDropDownMenuFX

desc: Send settings down to backend from init GUI

$Capstone V0_95$

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Controller	0

Conti	oner.				
	CapstoneMain Single Responsi	pility Principle Card DNE			
The	CapstoneMain	start[s]		Itself.	
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	Kaizen_85 Single Responsibilit		DNE	1	
The	Kaizen_85	Sets the log path [for]		Itself.	
The	Kaizen_85	Writes to a String array [v	within]	Itself.	
The	Kaizen_85	Writes the String array to	the log location	Itself.	
Mode		-ihili D.ii-l- Cl	Г J- D		
	ExamplePattern Single Respons		Extends Pattern	7 16	
The	ExamplePattern	Start[s] the pattern		Itself.	
	Pattern Single Responsibility P	rinciple Card	DNE		
The	ExamplePattern	Set[s] the Color		Itself.	
The	ExamplePattern	Set[s] the delay		Itself.	
The	Pattern	start[s]		Itself.	
	Pixel Single Responsibility Prin	nciple Card	DNE		
The	Pixel	Sets RGB, index values g	given	Itself.	
The	Pixel	Gets RGB and index values		Itself.	
	SerialComms Single Responsib		DNE		
The	SerialComms	Returns a char from the serial port		Itself.	
The	SerialComms	Sends String through specified serial port Itself.		Itself.	
View	InitPopup Single Responsibility	z Drinciplo Card	Extends MainViewDisplay	,EV	
The	InitPopup			Itself.	
		Gets User log folder info		+	
The	InitPopup	Creates a GUI for the use		Itself.	
The	InitPopup	Gets User LED strip/matr	rix info	Itself.	
	MainViewDisplayFX Single Re	esponsibility Principle Card	d Extends Application		
The	MainViewDisplayFX	Creates a GUI for the use	r	Itself.	
	ViewController Single Respons	sibility Principle Card	DNE		
The	ViewController	Responds to GUI buttons		Itself.	
The	ViewController	Controls which Pattern to		Itself.	
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	AlertBox Single Responsibility Principle Card		DNE	
The	AlertBox	Show[s]		Itself.

	Arduino Single Responsibility Principle Card		DNE	
The	Arduino	Returns bytes from the se	rial port	Itself.
The	Arduino	Sends bytes to the serial p	ort	Itself.

	PortDropdownMenu Single Responsibility Principle Card E		Extends JComboBox <string></string>	
The	PortDropdownMenu	Refreshes choices for serial ports		Itself.

	PortDropdownMenuFX Single Responsibility Principle Card Extends ComboBo		Extends ComboBox <se< th=""><th>erialPort></th></se<>	erialPort>
The	PortDropdownMenuFX	Refreshes choices for serial ports		Itself.

	SerialPortConverter Single Responsibility Principle Card		Extends StringConverter <serialpor< th=""><th>t></th></serialpor<>	t>
The	SerialPortConverter	Returns the SerialPort from a name		Itself.
The	SerialPortConverter	Returns the name of a SerialPort		Itself.