Method Summary

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| public class PiInfoObj | |
| Modifier and Type | Method and Description |
| int | index()  Returns the index in Weaved. |
| String | alias()  Returns the alias of the device. |
| String | address()  Returns the device’s address. |
| String | owner ()  Returns the name of the owner of the device. |
| int | pins()  Returns the number of pins. |

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| public class PinInfoObj | |
| Modifier and Type | Method and Description |
| int | number()  Returns the pin’s number. |
| String | name ()  Returns the name of the pin. |
| boolean | function()  Returns the state of the pin’s function. |
| boolean | state ()  Returns the state of the pin itself. |
| String | highLabel ()  Returns the label of the pin’s high state. |
| String | lowLabel()  Returns the label of the pin’s low state. |

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| public class pipin | |
| Modifier and Type | Method and Description |
| boolean | getFunction ()  Returns the state of the pin’s function. |
| int | getNumber ()  Returns the number of the pin. |
| String | getName()  Returns the name of the pin. |
| boolean | getState ()  Returns the state of the pin. |
| String | getHighLabel ()  Returns the label of the pin’s high state. |
| String | getLowLabel ()  Returns the label of the pin’s low state. |
| boolean | setFunction(boolean gf)  Set the function of the pin. |
| int | setNumber(int i)  Set the number of the pin to **i**. |
| String | setName(String sn)  Set the name of the pin to **sn**. |
| boolean | setState(boolean hl)  Set the state of the pin to **hl**. |
| String | setHighLabel(String hl)  Set the label of the pin’s high state to **hl**. |
| String | setLowLabel(String ll)  Set the label of the pin’s low state to **ll**. |
| String | toString()  Returns a string consisting of number, function, name, state, high label, and low label. |

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| public class rasppi | |
| Modifier and Type | Method and Description |
| boolean | setCreds(String usr, String psw)  Set credentials which will be used for HTTP requests. |
| String | setProxy(String URL)  Specificy the proxy’s URL. |
| String | getAlias()  Return the alias of the device. |
| String | getAddress()  Return the address of the device. |
| String | getOwner()  Return the name of the owner of the device. |
| String | getProxy()  Return the proxy of the device. |
| String | getSize()  Return the size of the GPIO. |
| String | setAlias(String al)  Set the device’s alias to **al**. |
| String | setAddress(String add)  Set the device’s address to **add**. |
| String | setOwner(String own)  Set the device’s owner to **own**. |
| String | APIRequests(String request\_param, boolean isGET)  A helper method for the REST API. |
| String | GetGPIOState()  Get the complete GPIO state of pi stored at piIndex in JSON format. |
| boolean | GetGPIOfunction(int pin)  Get the function of the the specific pin from the Pi. |
| boolean | GetGPIOvalue(int pin)  Get the value of the the specific pin from the Pi. |
| String | SetGPIOfunction(int pin, boolean fun)  Set the function of the the specific pin from the Pi. |
| String | SetGPIOvalue(int pin, boolean val)  Set the value of the the specific pin from the Pi. |
| void | createGPIO()  Create the GPIO array. |
| void | trimGPIO()  Call TrimToSize() on GPIO. |
| pipin | getPin(int index)  Returns the pin at **index**. |
| pipin | getPinDeep(int pinNumber)  Returns pin with specified pin number. |
| boolean | getPinFunction(int index, boolean deep)  Getter methods to access pin getter methods. |
| int | getPinNumber(int index, boolean deep)  Returns the pin number. |
| String | getPinName(int index, boolean deep)  Returns the name of the pin. |
| String | getPinHighLabel(int index, boolean deep)  Returns the pin’s high label. |
| String | getPinLowLabel(int index, boolean deep)  Returns the pin’s low label. |
| ArrayList<Integer> | validPinNumbers()  Returns the list of valid pin numbers. |
| String | setPinName(int index, String newname, boolean deep)  Set the name of the pin to **newname**. |
| String | setPinHighLabel(int index, String newlab, boolean deep)  Set the high label of the pin to **newlab**. |
| String | setPinLowLabel(int index, String newlab, boolean deep)  Set the low label of the pin to **newlab**. |
| void | addPin(int pin\_number, boolean pin\_function, String pin\_name, boolean pin\_state, String pin\_high\_label, String pin\_low\_label)  Add a new pin to the GPIO. |
| void | addPin(int pin\_number, boolean pin\_function, boolean pin\_state)  Add a new pin to the GPIO. |
| void | setup(boolean saved, String param)  Set up the GPIO. |
| void | setup\_saved(String param)  Set up an old configuration for this pi's GPIO, if available. |
| void | setup\_new()  Set up a new GPIO from the current state. |
| void | update()  Update the GPIO. |
| String | GPIOparse(String gpioraw, int pin, String field)  Parse the GPIO. |
| ArrayList<PinInfoObj> | getPinInfoArray()  Get information of pins (number, name, function, state, high label, low label) |
| String | exportPinJSON(int index, boolean deep)  Returns the pin at **index**. |
| String | toString()  Returns a string of the device’s alias, owner, address, and GPIO pins. |

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| public class weavedapi | |
| Modifier and Type | Method and Description |
| String | getToken()  Get the token ID. |
| void | setToken(String t)  Set the token ID to **t**. |
| boolean | login(String usr, String psw)  Log in to Weaved using username **usr** and password **psw**. |
| String | connect(String deviceaddress)  Connect to **deviceaddress**. |
| void | newPiList()  Create a new list of Pis. |
| void | addPi(String deval, String devadd, String devown)  Add a new Pi to the list of Pis. |
| void | setup(boolean saved)  Set up the GPIO. |
| void | setup\_saved()  Set up an old configuration for this pi's GPIO, if available. |
| void | setup\_new()  Set up a new GPIO from the current state. |
| void | updatePi(int index)  Update the Pi. |
| int | getPiListSize()  Get the size of the list of Pis. |
| rasppi | getPi(int i)  Get the Pi at index **i** from piList. |
| void | setPiCreds(int index,String usr, String psw)  Set the Pi’s credentials (username **usr** and password **psw**). |
| void | genPiProxy(int index)  Set the Pi’s proxy. |
| void | setupPi(int index, boolean saved, String param)  Set up the Pi. |
| String | listAll()  Return a string of the contents of the URL in string API\_LIST\_ALL. |
| String | basicParse(String rawin, String field)  Parse using JSONParser(). |
| String | deviceParse(String devraw, int devindex, String field)  Parse the device using JSONParser(). |
| String | proxyParse(String rawcon)  Parse the proxy address using JSONParser(). |
| String | getPiAlias(int index)  Get the Pi’s Alias. |
| String | getPiAddress(int index)  Get the Pi’s address. |
| String | getPiOwner(int index)  Get the Pi’s owner. |
| int | getPiSize(int index)  Get the size of the Pi. |
| int | getPiPinNumber(int index, int pin)  Get the specified pin’s number. |
| String | getPiPinName(int index, int pin)  Get the specified pin’s name. |
| String | getPiPinHighLabel(int index, int pin)  Returns the label of the specified pin’s high state. |
| String | getPiPinLowLabel(int index, int pin)  Returns the label of the specified pin’s low state. |
| String | setPiPinName(int index, int pin, String newname)  Set the specified pin’s name to **newname**. |
| String | setPiPinHighLabel(int index, int pin, String newname)  Set the specified pin’s high label to **newname**. |
| String | setPiPinLowLabel(int index, int pin, String newname)  Set the specified pin’s low label to **newname**. |
| ArrayList<Integer> | validPiPinNumbers(int index)  Get an array of valid pin numbers for specified pi. |
| String | GetPiGPIOState(int piIndex, boolean update)  Get the complete GPIO state of pi stored at **piIndex** in JSON format. |
| boolean | GetPiGPIOPinFunction(int piIndex, int pinNumber, boolean update)  Get the function of the the specific pin (**pinNumber**) from the Pi at index **piIndex**. |
| boolean | GetPiGPIOPinValue(int piIndex, int pinNumber, boolean update)  Get the value of the the specific pin (**pinNumber**) from the Pi at index **piIndex**. |
| String | SetPiGPIOPinFunction(int piIndex, int pinNumber, boolean fun, boolean update)  Set the function of the the specific pin (**pinNumber**) from the Pi at index **piIndex**. |
| String | SetPiGPIOPinValue(int piIndex, int pinNumber, boolean val, boolean update)  Set the value of the the specific pin (**pinNumber**) from the Pi at index **piIndex**. |
| boolean | getPinHighBool()  Get which boolean value represents HIGH input/output (true). |
| boolean | getPinLowBool()  Get which boolean value represents LOW input/output (false). |
| boolean | getPinInBool()  Get which boolean value represents IN (input pin) (true). |
| boolean | getPinOutBool()  Get which boolean value represents OUT (output pin) (false). |
| String | exportPiJSON(int index) |
| String | exportPiPinJSON(int index, int pin) |
| ArrayList<PiInfoObj> | getPiPinInfoArray(int piIndex)  Get information of pins (number, name, function, state, high label, low label). |
| ArrayList<PiInfoObj> | getPiInfoArray()  Get array of pi information (alias, address, owner, size) |
| void | logout()  Log the user out of Weaved. |