Admin Panel

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Chapter 1

Admin Panel

The app to directly control the Sunfounder PiCar.

1.1 Install Packages:

pnpm i

1.2 Run:

pnpm run electron

1.3 Build EXE to export:

pnpm run preelectron-pack
AND
pnpm run electron-pack

1.4 Template from:

https://github.com/soulehshaikh99/create-svelte-electron-app

2 Admin Panel

Chapter 2

Class Index

2.1 Class List

Here are the classes, st	ructs, ui	nons ai	na inte	rraces	s with	i brie	aesc	riptic	ins:					
Code													 	
WebSocketServer .										 	 		 	

4 Class Index

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

rollup.config.js
js/behaviour_tree.js
js/device.js
js/main.js
js/preload.js
js/raspberry_pi.js
js/store.js
js/websocket.js
js/websocket_events.js
public/index.html
src/App.svelte
src/main.js
src/routes.js
src/lib/BehaviourTreeHandler.svelte
src/lib/CodeBox_Constants.js
src/lib/IPList.svelte
src/lib/NavigationBar.svelte
src/lib/RaspberryPiConnectBanner.svelte
src/lib/RaspberryPiSelector.svelte
src/lib/SaveBehaviourTreeModal.svelte
src/lib/WebsocketServerConfig.svelte
src/lib/home/CodeBox.svelte
src/lib/home/CodeMessagingBar.svelte
src/lib/home/Stream.svelte
src/lib/validate/CodeBox.svelte
src/lib/validate/CodeButton.svelte
src/routes/Home.svelte
src/routes/NotFound.svelte
src/routes/Validate.svelte
src/routes/Websocket.svelte
src/store/behaviour_tree_store.js
src/store/home_store.js
src/store/raspberry_pi_store.js
src/store/websocket store.is

6 File Index

Chapter 4

Class Documentation

4.1 Code Class Reference

Public Member Functions

- constructor ()
- get ()
- generate ()

4.1.1 Member Function Documentation

4.1.1.1 constructor()

```
Code::constructor ( ) [inline]
```

4.1.1.2 generate()

```
Code::generate ( ) [inline]
```

4.1.1.3 get()

```
Code::get ( ) [inline]
```

The documentation for this class was generated from the following file:

• js/websocket.js

8 Class Documentation

4.2 WebSocketServer Class Reference

Public Member Functions

- constructor ()
- connect (port)
- isConnected ()
- close ()
- generateCode ()
- getCode ()
- getPort ()
- getRaspberryPiMap ()
- getSelectedRaspberryPi ()
- selectRaspberryPi (uuid)
- async startConnections ()
- sendBehaviourTree (behaviour_tree)
- startBehaviourTree ()
- stopBehaviourTree ()

4.2.1 Member Function Documentation

4.2.1.1 close()

```
WebSocketServer::close ( ) [inline]
```

Call this function to close the WebSocket server.

4.2.1.2 connect()

```
\label{lem:webSocketServer::connect (} $port ) $ [inline] $
```

Call this function to start the WebSocket server.

Parameters

```
{number} port
```

4.2.1.3 constructor()

```
WebSocketServer::constructor ( ) [inline]
```

@type {WebSocket.Server | undefined}

```
@type {number | undefined}
@type {Code}
@type {Map<string, WebSocket>}
@type {RaspberryPi | undefined}
4.2.1.4 generateCode()
WebSocketServer::generateCode ( ) [inline]
Returns
     {number}
4.2.1.5 getCode()
WebSocketServer::getCode ( ) [inline]
Returns
     {number}
4.2.1.6 getPort()
WebSocketServer::getPort ( ) [inline]
Returns
     {number}
4.2.1.7 getRaspberryPiMap()
WebSocketServer::getRaspberryPiMap ( ) [inline]
Returns
     {Map<string, WebSocket>}
```

10 Class Documentation

4.2.1.8 getSelectedRaspberryPi()

```
WebSocketServer::getSelectedRaspberryPi ( ) [inline]
```

Returns

{RaspberryPi | undefined}

4.2.1.9 isConnected()

```
WebSocketServer::isConnected ( ) [inline]
```

4.2.1.10 selectRaspberryPi()

```
\label{lem:webSocketServer::selectRaspberryPi (} uuid \ ) \quad [inline]
```

Select a Raspberry Pi to send / receive messages from.

Parameters

```
{string} uuid
```

Returns

4.2.1.11 sendBehaviourTree()

Parameters

```
{string} behaviour_tree
```

4.2.1.12 startBehaviourTree()

WebSocketServer::startBehaviourTree () [inline]

4.2.1.13 startConnections()

```
async WebSocketServer::startConnections ( ) [inline]
```

4.2.1.14 stopBehaviourTree()

```
WebSocketServer::stopBehaviourTree ( ) [inline]
```

The documentation for this class was generated from the following file:

• js/websocket.js

12 Class Documentation

Chapter 5

File Documentation

5.1 js/behaviour_tree.js File Reference

Functions

- function is Dev ()
- function sendBehaviourTree (_event, args)
- function startBehaviourTree (_event, _args)
- function stopBehaviourTree (_event, _args)
- function getBehaviourTreeList ()
- function updateBehaviourTreeList (behaviour_tree_list)
- function async saveBehaviourTree (_event, args)
- function async removeBehaviourTree (_event, args)
- function async validateBehaviourTree (_event, args)
- ipcMain handle ('sendBehaviourTree', sendBehaviourTree)

Variables

- const { app, ipcMain } = require('electron')
- const exec = util.promisify(require('child_process').exec)
- const Os = require('os')
- const path = require("path")
- const fs = require("fs")
- const base_path = app.getAppPath()
- const resources_dir = isDev() ? path.join(base_path, 'resources') : path.join(base_path, '..', '..', 'resources')

5.1.1 Function Documentation

5.1.1.1 getBehaviourTreeList()

```
function getBehaviourTreeList ( )
```

5.1.1.2 handle()

5.1.1.3 isDev()

```
function isDev ( )
```

5.1.1.4 removeBehaviourTree()

```
function async remove
Behaviour
Tree ( \_event, \\ args \ )
```

5.1.1.5 saveBehaviourTree()

```
function async saveBehaviourTree ( \_event, \\ args \ )
```

5.1.1.6 sendBehaviourTree()

```
function sendBehaviourTree (
    _event,
    args )
```

5.1.1.7 startBehaviourTree()

```
function startBehaviourTree (
    _event,
    _args )
```

5.1.1.8 stopBehaviourTree()

```
function stopBehaviourTree (
    _event,
    _args )
```

5.1.1.9 updateBehaviourTreeList()

```
\label{thm:continuous} function \ update Behaviour Tree List \ ( behaviour\_tree\_list \ )
```

Parameters

```
{any[]} behaviour_tree_list
```

5.1.1.10 validateBehaviourTree()

```
function async validateBehaviourTree ( \_event, \\ args \ )
```

@type {string}

5.1.2 Variable Documentation

5.1.2.1 base_path

```
const base_path = app.getAppPath()
```

5.1.2.2 const

```
const { app, ipcMain } = require('electron')
```

5.1.2.3 exec

```
const exec = util.promisify(require('child_process').exec)
```

5.1.2.4 fs

```
const fs = require("fs")
```

5.1.2.5 Os

```
const Os = require('os')
```

5.1.2.6 path

```
const path = require("path")
```

5.1.2.7 resources_dir

```
const resources_dir = isDev() ? path.join(base_path, 'resources') : path.join(base_path,
'...', '...', 'resources')
```

5.2 js/device.js File Reference

Functions

- function getLocalIPList (_event, _args)
- ipcMain handle ('getLocalIPList', getLocalIPList)

Variables

- const os
- module exports

5.2.1 Function Documentation

5.2.1.1 getLocalIPList()

```
function getLocalIPList (
    _event,
    _args )
```

5.2.1.2 handle()

5.2.2 Variable Documentation

5.2.2.1 exports

5.2.2.2 os

```
const os

Initial value:
= require('os')
const { ipcMain } = require('electron')
```

5.3 js/main.js File Reference

Functions

```
function isDev ()
function createWindow ()
app on ('ready', createWindow)
function onClose ()
```

Variables

```
    const { app, BrowserWindow } = require('electron')
    const path = require('path')
    const serve = require('electron-serve')
    const loadURL = serve({ directory: 'public' })
```

5.3.1 Function Documentation

5.3.1.1 createWindow()

```
function createWindow ( )
```

5.3.1.2 isDev()

```
function isDev ( )
```

5.3.1.3 on()

5.3.1.4 onClose()

```
function onClose ( )
```

5.3.2 Variable Documentation

5.3.2.1 const

```
const { app, BrowserWindow } = require('electron')
```

5.3.2.2 loadURL

```
const loadURL = serve({ directory: 'public' })
```

5.3.2.3 path

```
const path = require('path')
```

5.3.2.4 serve

```
const serve = require('electron-serve')
```

5.4 src/main.js File Reference

Variables

- import app pcss
- import App from App svelte
- · const app

5.4.1 Variable Documentation

5.4.1.1 app

```
Initial value:
= new App({
  target: document.body,
  props: {
    name: "world",
  },
})
```

5.4.1.2 pcss

```
import app pcss
```

5.4.1.3 svelte

```
import App from App svelte
```

5.5 js/preload.js File Reference

5.6 js/raspberry_pi.js File Reference

Functions

- function unselectRaspberryPi (_event, _args)
- function selectRaspberryPi (_event, args)
- function getRaspberryPiList (_event, _args)
- function getSelectedRaspberryPi (_event, _args)
- ipcMain handle ('selectRaspberryPi', selectRaspberryPi)

Variables

```
• const { ipcMain } = require('electron')
```

5.6.1 Function Documentation

5.6.1.1 getRaspberryPiList()

```
function getRaspberryPiList (
    _event,
    _args )
```

5.6.1.2 getSelectedRaspberryPi()

```
function getSelectedRaspberryPi (
    _event,
    _args )
```

5.6.1.3 handle()

5.6.1.4 selectRaspberryPi()

```
function selectRaspberryPi (
    _event,
    args )
```

5.6.1.5 unselectRaspberryPi()

5.6.2 Variable Documentation

5.6.2.1 const

```
const { ipcMain } = require('electron')
```

5.7 js/store.js File Reference

5.8 js/websocket.js File Reference

Classes

- class Code
- · class WebSocketServer

Functions

• function getRandomInt (min, max)

Variables

- const WebSocket = require('ws')
- module exports = { websocket_server: new WebSocketServer() }

5.8.1 Function Documentation

5.8.1.1 getRandomInt()

Parameters

{number}	min				
{number}	max				

Returns

{number}

5.8.2 Variable Documentation

5.8.2.1 exports

```
module exports = { websocket_server: new WebSocketServer() }
```

5.8.2.2 WebSocket

```
const WebSocket = require('ws')
```

5.9 js/websocket_events.js File Reference

Functions

- function async startWebSocketServer (_event, args)
- function closeWebSocketServer (_event, _args)
- function getWebSocketServer (_event, _args)
- ipcMain handle ('startWebSocketServer', startWebSocketServer)

Variables

- const { ipcMain } = require('electron')
- const tcpPortUsed = require('tcp-port-used')

5.9.1 Function Documentation

5.9.1.1 closeWebSocketServer()

5.9.1.2 getWebSocketServer()

```
function getWebSocketServer (
    _event,
    _args )
```

5.9.1.3 handle()

5.9.1.4 startWebSocketServer()

```
function async startWebSocketServer ( \_event, \\ args \ )
```

5.9.2 Variable Documentation

5.9.2.1 const

```
const { ipcMain } = require('electron')
```

5.9.2.2 tcpPortUsed

```
const tcpPortUsed = require('tcp-port-used')
```

5.10 public/index.html File Reference

5.11 README.md File Reference

5.12 rollup.config.js File Reference

Functions

• function serve ()

Variables

- import svelte from rollup plugin svelte
- · import commonjs from rollup plugin commonjs
- import resolve from rollup plugin node resolve
- · import livereload from rollup plugin livereload
- import { terser } from 'rollup-plugin-terser'
- · import css from rollup plugin css only
- import postcss from rollup plugin postcss import tailwindcss from tailwindcss
- import nodePolyfills from rollup plugin node polyfills
- const tailwindConfig = require('./tailwind.config.cjs')
- const production = !process.env.ROLLUP_WATCH
- · export default

5.12.1 Function Documentation

5.12.1.1 serve()

```
function serve ( )
```

5.12.2 Variable Documentation

5.12.2.1 commonjs

import commonjs from rollup plugin commonjs

5.12.2.2 default

export default

5.12.2.3 import

```
import { terser } from 'rollup-plugin-terser'
```

5.12.2.4 livereload

import livereload from rollup plugin livereload

5.12.2.5 only

import css from rollup plugin css only

5.12.2.6 polyfills

import nodePolyfills from rollup plugin node polyfills

5.12.2.7 production

const production = !process.env.ROLLUP_WATCH

5.12.2.8 resolve

import resolve from rollup plugin node resolve

5.12.2.9 svelte

import NotFound from routes NotFound svelte

5.12.2.10 tailwindConfig

const tailwindConfig = require('./tailwind.config.cjs')

5.12.2.11 tailwindcss

import postcss from rollup plugin postcss import tailwindcss from tailwindcss

5.13 src/App.svelte File Reference

5.14 src/lib/BehaviourTreeHandler.svelte File Reference

5.15 src/lib/CodeBox Constants.js File Reference

Variables

- import { hoverTooltip } from "@codemirror/view"
- export const range 0 180
- export const range 0 360
- export const range_0_100
- export const condition_operator_types
- · const node information list
- · export const node_hover

5.15.1 Variable Documentation

5.15.1.1 condition_operator_types

```
export const condition_operator_types
```

5.15.1.2 import

```
import { hoverTooltip } from "@codemirror/view"
```

5.15.1.3 node_hover

```
export const node_hover
Initial value:
 hoverTooltip((view, pos, side) => {
     const { from, to, text } = view.state.doc.lineAt(pos);
         end = pos;
     while (start > from && /[\w|:]/.test(text[start - from - 1])) start--;
    while (end < to && /[\w|:]/.test(text[end - from])) end++;
if ((start == pos && side < 0) || (end == pos && side > 0)) return null;
const highlighted_node = text.slice(start - from, end - from);
     const node_information = node_information_list.get(highlighted_node);
     if (!node_information) return null;
     return {
         pos: start,
          end,
         above: true,
         create(_) {
               const dom = document.createElement("div");
              dom.textContent = node_information;
               return { dom };
         }.
     };
})
```

5.15.1.4 node_information_list

```
const node_information_list
Initial value:
     new Map([
    ["Root", "Start of every node tree"],
               ["Root", "Start of every node tree"],
["Selector", "Runs children until one succeeds"],
["Sequence", "Runs children until one fails"],
["Random", "Runs a random child"],
["UseRoot", "Goes to the given root node id"],
["Invert", "Inverts the result of the child"],
["Repeat", "Repeats the child given the amount of times"],
["Fail", "Always fails"],
["Succeed" "Always succeeds"]
               ["Succeed", "Always succeeds"],
["Blackboard:ChangeInteger", "Changes the integer value of the blackboard"],
["Blackboard:IntegerCondition", "Checks the integer value of the blackboard"],
                ["Action:PauseExecution", "Pauses the execution for the given amount of time"],
               ["Action:PauseExecution", "Pauses the execution for the give ["Action:Print", "Prints the given message"], ["Action:Drive", "Set the speed and direction of the car"], ["Action:Turn", "Turns the car by the given angle"], ["Action:SetAngle", "Turns the car by the given angle"], ["Action:SetSpeed", "Moves the car by the given speed"], ""Action:SetSpeed", ""Acti
                ["Action:SetWheelDirection", "Sets the direction of the car"],
               ["Condition:SucceedOnAverageNearbyScan", "Checks the average distance between two angles and succeeds if
                          the average is below the specified cm"],
                ["Condition:SucceedOnAnyNearbyScan", "Checks the distance of all nearby points and succeeds if any is
                          below the specified cm"],
               ["Condition:SucceedOnAverageColour", "Checks the average colour of the camera and succeeds if the colour
                          is within the tolerance"],
 ])
@type {Map<string, string>}
5.15.1.5 range 0 100
export const range_0_100
```

5.15.1.6 range_0_180

```
export const range_0_180
```

5.15.1.7 range 0 360

```
export const range_0_360
```

5.16	src/lib/home/CodeBox.svelte File Reference
5.17	src/lib/validate/CodeBox.svelte File Reference
5.18	src/lib/home/CodeMessagingBar.svelte File Reference
5.19	src/lib/home/Stream.svelte File Reference
5.20	src/lib/IPList.svelte File Reference
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5.23	src/lib/RaspberryPiSelector.svelte File Reference
5.24	src/lib/SaveBehaviourTreeModal.svelte File Reference
5.25	src/lib/validate/CodeButton.svelte File Reference
5.26	src/lib/WebsocketServerConfig.svelte File Reference
5.27	src/routes.js File Reference

Variables

- import Home from routes Home svelte
- export default

5.27.1 Variable Documentation

5.27.1.1 default

```
export default

Initial value:
{
    '/': Home,
    '/websocket': Websocket,
    '/validate': Validate,
    '*': NotFound
```

5.27.1.2 svelte

import NotFound from routes NotFound svelte

- 5.28 src/routes/Home.svelte File Reference
- 5.29 src/routes/NotFound.svelte File Reference
- 5.30 src/routes/Validate.svelte File Reference
- 5.31 src/routes/Websocket.svelte File Reference
- 5.32 src/store/behaviour tree store.js File Reference

Functions

• function async main ()

Variables

- import { writable } from 'svelte/store'
- export const behaviour_tree_xml_code = writable("")
- export const show_behaviour_tree_save_modal = writable(false)
- export const behaviour_tree_save_modal_code = writable("")
- export let behaviour_tree_list = writable([])

5.32.1 Function Documentation

5.32.1.1 main()

main ()

5.32.2 Variable Documentation

5.32.2.1 behaviour_tree_list

```
export let behaviour_tree_list = writable([])
```

5.32.2.2 behaviour_tree_save_modal_code

```
export const behaviour_tree_save_modal_code = writable("")
```

5.32.2.3 behaviour_tree_xml_code

```
export const behaviour_tree_xml_code = writable("")
```

5.32.2.4 import

```
import { writable } from 'svelte/store'
```

5.32.2.5 show_behaviour_tree_save_modal

```
export const show_behaviour_tree_save_modal = writable(false)
```

5.33 src/store/home_store.js File Reference

Variables

- import { writable } from 'svelte/store'
- export const main_pane_size_0_store = writable(80)
- export const main_pane_size_1_store = writable(20)
- export const side_pane_size_0_store = writable(83)
- export const side_pane_size_1_store = writable(17)
- export const lidar_toggle = writable(true)

5.33.1 Variable Documentation

5.33.1.1 import

```
import { writable } from 'svelte/store'
```

5.33.1.2 lidar_toggle

```
export const lidar_toggle = writable(true)
```

5.33.1.3 main_pane_size_0_store

```
export const main_pane_size_0_store = writable(80)
```

5.33.1.4 main_pane_size_1_store

```
export const main_pane_size_1_store = writable(20)
```

5.33.1.5 side_pane_size_0_store

```
export const side_pane_size_0_store = writable(83)
```

5.33.1.6 side_pane_size_1_store

```
export const side_pane_size_1_store = writable(17)
```

5.34 src/store/raspberry_pi_store.js File Reference

Functions

- function async main ()
- window api onConnection ((value)=> { value=JSON.parse(value);console.log(value);raspberry_pi_uuid_ \leftarrow list.update((list)=> { list.push(value.uuid);return list;});})
- window api onDisconnection ((value)=> { value=JSON.parse(value);console.log(value);raspberry_pi_uuid←
 _list.update((list)=> { list=list.filter((uuid)=> uuid !==value.uuid);return list;});})

Variables

- import { writable } from 'svelte/store'
- export const raspberry_pi_uuid_list = writable([])
- export const selected_raspberry_pi_uuid = writable("")

5.34.1 Function Documentation

5.34.1.1 main()

```
function async main ( )
```

5.34.1.2 onConnection()

5.34.1.3 onDisconnection()

5.34.2 Variable Documentation

5.34.2.1 import

```
import { writable } from 'svelte/store'
```

5.34.2.2 raspberry_pi_uuid_list

```
export const raspberry_pi_uuid_list = writable([])
```

5.34.2.3 selected_raspberry_pi_uuid

```
export const selected_raspberry_pi_uuid = writable("")
```

5.35 src/store/websocket_store.js File Reference

Functions

- function async main ()

Variables

- import { writable } from 'svelte/store'
- export const websocket_server_connection_state = writable(false)
- export const websocket server port = writable(3000)
- export const websocket_server_code = writable(-1)
- export const lidar_stream = writable([])
- export const camera_stream = writable("")

5.35.1 Function Documentation

5.35.1.1 main()

```
function async main ( )
```

5.35.1.2 onMessage()

5.35.2 Variable Documentation

5.35.2.1 camera_stream

```
export const camera_stream = writable("")
```

5.35.2.2 import

```
import { writable } from 'svelte/store'
```

5.35.2.3 lidar_stream

```
export const lidar_stream = writable([])
```

5.35.2.4 websocket_server_code

```
export const websocket_server_code = writable(-1)
```

5.35.2.5 websocket_server_connection_state

```
export const websocket_server_connection_state = writable(false)
```

5.35.2.6 websocket_server_port

```
export const websocket_server_port = writable(3000)
```

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