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

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Code 7
WebSocketServer 8

Chapter 3

File Index

3.1 File List

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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

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()

```
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>}

4.2.1.8 getSelectedRaspberryPi()

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

Returns

{RaspberryPi | undefined}

4.2.1.9 isConnected()

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

4.2.1.10 selectRaspberryPi()

```
WebSocketServer::selectRaspberryPi (
              uuid )  [inline]
```

Select a Raspberry Pi to send / receive messages from.

Parameters

{string}	uuid

Returns

4.2.1.11 sendBehaviourTree()

```
WebSocketServer::sendBehaviourTree (
             behaviour_tree )  [inline]
```

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

Chapter 5

File Documentation

5.1 js/behaviour_tree.js File Reference

Functions

- function isDev ()
- 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()

```
ipcMain handle (
             'sendBehaviourTree' ,
             sendBehaviourTree  )
```

5.1.1.3 isDev()

```
function isDev ( )
```

5.1.1.4 removeBehaviourTree()

```
function async removeBehaviourTree (
              _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()

```
function updateBehaviourTreeList (
              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()

```
ipcMain handle (
             'getLocalIPList' ,
             getLocalIPList  )
```

5.2.2 Variable Documentation

5.2.2.1 exports

```
module exports
```

Initial value:

```
= {
    getLocalIPList: getLocalIPList
}
```

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()

```
app on (
            'ready' ,
            createWindow  )
```

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

```
export default 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()

```
ipcMain handle (
             'selectRaspberryPi' ,
             selectRaspberryPi  )
```

5.6.1.4 selectRaspberryPi()

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

5.6.1.5 unselectRaspberryPi()

```
function unselectRaspberryPi (
              _event,
              _args )
```

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()

```
function getRandomInt (
            min,
            max )
```

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()

```
function closeWebSocketServer (
              _event,
              _args )
```

5.9.1.2 getWebSocketServer()

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

5.9.1.3 handle()

```
ipcMain handle (
             'startWebSocketServer' ,
             startWebSocketServer  )
```

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 README.md File Reference

5.11 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

5.11.1 Function Documentation

5.11.1.1 serve()

```
function serve ( )
```

5.11.2 Variable Documentation

5.11.2.1 commonjs

```
import commonjs from rollup plugin commonjs
```

5.11.2.2 default

```
export default
```

5.11.2.3 import

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

5.11.2.4 livereload

```
import livereload from rollup plugin livereload
```

5.11.2.5 only

```
import css from rollup plugin css only
```

5.11.2.6 polyfills

```
import nodePolyfills from rollup plugin node polyfills
```

5.11.2.7 production

```
const production = !process.env.ROLLUP_WATCH
```

5.11.2.8 resolve

```
import resolve from rollup plugin node resolve
```

5.11.2.9 svelte

```
import NotFound from routes NotFound svelte
```

5.11.2.10 tailwindConfig

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

5.11.2.11 tailwindcss

```
import postcss from rollup plugin postcss import tailwindcss from tailwindcss
```

5.12 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

5.12.1 Variable Documentation

5.12.1.1 condition_operator_types

```
export const condition_operator_types
```

5.12.1.2 import

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

5.12.1.3 node_hover

```
export const node_hover
```

Initial value:

```
= hoverTooltip((view, pos, side) => {
    const { from, to, text } = view.state.doc.lineAt(pos);
    let start = 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 };
        },
    };
})
```

5.12.1.4 node_information_list

```
const node_information_list
```

Initial value:

```
= new Map([
    ["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"],
    ["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: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: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>}

5.12.1.5 range_0_100

```
export const range_0_100
```

5.12.1.6 range_0_180

```
export const range_0_180
```

5.12.1.7 range_0_360

```
export const range_0_360
```

5.13 src/routes.js File Reference

Variables

- import Home from routes Home svelte
- export default

5.13.1 Variable Documentation

5.13.1.1 default

```
export default
```

Initial value:

```
{
    '/': Home,
    '/websocket': Websocket,
    '/validate': Validate,

    '*': NotFound
}
```

5.13.1.2 svelte

```
import NotFound from routes NotFound svelte
```

5.14 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([ ])

5.14.1 Function Documentation

5.14.1.1 main()

```
main ( )
```

5.14.2 Variable Documentation

5.14.2.1 behaviour_tree_list

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

5.14.2.2 behaviour_tree_save_modal_code

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

5.14.2.3 behaviour_tree_xml_code

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

5.14.2.4 import

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

5.14.2.5 show_behaviour_tree_save_modal

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

5.15 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)

5.15.1 Variable Documentation

5.15.1.1 import

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

5.15.1.2 lidar_toggle

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

5.15.1.3 main_pane_size_0_store

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

5.15.1.4 main_pane_size_1_store

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

5.15.1.5 side_pane_size_0_store

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

5.15.1.6 side_pane_size_1_store

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

5.16 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_↩ 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("")

5.16.1 Function Documentation

5.16.1.1 main()

```
function async main ( )
```

5.16.1.2 onConnection()

```
window api onConnection (
             (value) ,
             { value=JSON.parse(value);console.log(value);raspberry_pi_uuid_list.update((list)=>
{ list.push(value.uuid);return list;});}  )
```

5.16.1.3 onDisconnection()

```
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;});}  )
```

5.16.2 Variable Documentation

5.16.2.1 import

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

5.16.2.2 raspberry_pi_uuid_list

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

5.16.2.3 selected_raspberry_pi_uuid

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

5.17 src/store/websocket_store.js File Reference

Functions

- function async main ()
- window api onMessage ((value)=> { value=JSON.parse(value);lidar_stream.set(value.lidar);camera_↩ stream.set(value.frame_buffer);})

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("")

5.17.1 Function Documentation

5.17.1.1 main()

```
function async main ( )
```

5.17.1.2 onMessage()

```
window api onMessage (
             (value) ,
             { value=JSON.parse(value);lidar_stream.set(value.lidar);camera_stream.set(value.↩
frame_buffer);}  )
```

5.17.2 Variable Documentation

5.17.2.1 camera_stream

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

5.17.2.2 import

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

5.17.2.3 lidar_stream

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

5.17.2.4 websocket_server_code

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

5.17.2.5 websocket_server_connection_state

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

5.17.2.6 websocket_server_port

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

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