/carberry/run.qml

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2: * File: run.qml
    3: * Description: Main controller/view for the frontend. Root element that
                       instantiates all components. Lasts the runtime of the GUI.
    5: * Project: Carberry Pi
    6: * Author: Ryan McHugh
    7: * Year: 2020
    8: */
    9:
   10: // root
   11:
   12: import QtQuick 2.11
   13: import QtQuick.Window 2.4
   14: import QtQuick.Controls 2.4
   15: import QtQuick.Extras 1.4
   16: import "./partials"
   17: import "./js/header_back.js" as HeaderBack
   18: import "./js/header_info.js" as HeaderInfo
   19: import "./items" as Items
   20:
   21:
   22:
   23:
   24: ApplicationWindow {
   25:
           id: root
   26:
           visible: true
   27:
           width: 800
   28:
           height: 480
   29:
           title: "Carberry Pi [Development]"
   30:
   31:
           // Variables
   32:
           property var style: main.config['style']['current']
   33:
           property var header_list: {
   34:
             'info': false,
             'text': "",
   35:
   36:
             'stack': stack,
   37:
   38:
           color: "white"
   39:
   40:
           header: head
   41:
   42:
           // Source: https://forum.qt.io/topic/62267/how-we-can-create-2-second-delay-or
-wait-in-qm1/7
   43:
           Timer {
            id: timer
   44:
   45:
            running: false
            repeat: false
   46:
   47:
   48:
            property var callback
   49:
   50:
             onTriggered: callback()
           }
   51:
   52:
   53:
           Timer {
   54:
            id: timer_extended
   55:
             running: false
   56:
            repeat: false
   57:
   58:
            property var callback
   59:
   60:
             onTriggered: callback()
   61:
           }
   62:
   63:
           // Javascript Functions
   64:
           function setTimeout(callback, delay)
   65:
   66:
             if(timer.running){
   67:
               console.error("nested calls to setTimeout are not supported!");
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68:
   69:
             timer.callback = callback;
   70:
             timer.interval = delay;
   71:
             timer.running = true;
   72:
   73:
   74:
           function setTimeoutRepeated(callback, delay, cont){
   75:
             if(timer.running){
   76:
               console.error("nested calls to setTimeoutRepeated are not supported!");
   77:
   78:
             timer_extended.callback = callback;
   79:
             timer_extended.interval = delay;
   80:
             timer_extended.repeat = cont;
   81:
             timer_extended.running = true;
   82:
           }
   83:
   84:
           function sendInfo(text){
             header_list['info'] = true;
   85:
             header_list['text'] = text;
   86:
   87:
             headerObj.list = header_list;
   88:
             setTimeout(function(){
               header_list['info'] = false;
   89:
   90:
               headerObj.list = header_list;
             }, 1000)
   91:
           }
   92:
   93:
   94:
   95:
           // run function to return conditional
   96:
           function sendInfoExtended(text, run){
   97:
             setTimeoutRepeated(function(){
   98:
               header_list['info'] = !run();
   99:
               header_list['text'] = text;
  100:
               headerObj.list = header_list;
  101:
             }, 1000, !run())
  102:
  103:
  104:
           function printTest(){
  105:
  106:
             console.log("\n TESTING \n\n")
  107:
  108:
             var test_dict = stack.currentItem.children[0].testValues()
  109:
  110:
             console.log("\n___DASH_
  111:
             console.log('Speed: ' + (main.handler['speed'] == test_dict['SPEED'] ? "YES"
 : "No"))
             console.log('RPM: ' + (main.handler['rpm'] == test_dict['RPM'] ? "YES" : "No
  112:
• ) )
             console.log('Coolant: ' + (main.handler['engine_temp'] == test_dict['COOLANT
  113:
'] ? "YES" : "No"))
  114:
  115:
             console.log("\n Diagnostics ");
  116:
             // console.log(test_dict['diag_1'] == 22 ? "YES" : "No")
  117:
             for(var iter = 1; iter <= 6; iter++){
                 console.log('temp' + iter + ' ' + (main.diagnostics[test_dict['diag'].ge
  118:
t(iter - 1)['key']] == test_dict['diag'].get(iter - 1)['value'] ? "YES" : "No"))
  119:
                 // console.log(test_dict['diag'].get(0)['value'])
  120:
                 // console.log(main.diagnostics['temp1'])
  121:
  122:
             console.log("\n___END TESTING___\n\n")
  123:
  124:
           }
  125:
  126:
           {\tt Item}\ \{
  127:
  128:
             id: head
             Header {
  129:
  130:
               id: headerObj
               list: header_list
  131:
```

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132:
                context: main
  133:
             }
           }
  134:
  135:
  136:
  137:
  138:
           StackView{
  139:
            id: stack
  140:
             anchors.fill: parent
  141:
             initialItem: view1
  142:
             objectName: "stack"
  143:
             onCurrentItemChanged: currentItem.objectName != "" ? sendInfo(currentItem.ob
  144:
jectName) : null
  145:
  146:
             Transition {
  147:
                id: transition_enter
  148:
                PropertyAnimation{
                  property: "opacity"
  149:
                  from: 0
  150:
  151:
                 to: 1
  152:
                  duration: 500
  153:
             }
  154:
  155:
  156:
             Transition {
  157:
               id: transition_exit
  158:
               PropertyAnimation{
  159:
                  property: "opacity"
  160:
                  from: 1
  161:
                  to: 0
  162:
                  duration: 500
  163:
  164:
              }
  165:
  166:
             popEnter: transition_enter
  167:
             popExit: transition_exit
  168:
             pushEnter: transition enter
  169:
             pushExit: transition exit
  170:
  171:
  172:
             signal sig_exit(var exit_code)
  173:
             signal sig_restart(var exit_code)
  174:
  175:
  176:
  177:
             Component {
  178:
               id: view1
  179:
                Item {
  180:
                  id: mainItem
  181:
                  SwipeView{
  182:
                    id: swipeView
  183:
                    anchors.fill: parent
  184:
  185:
                    currentIndex: 0
  186:
  187:
                    function testValues(){
  188:
                      var dict = {
  189:
                        'SPEED': dashObj.speedVal,
  190:
                        'RPM': dashObj.rpmVal,
  191:
                        'COOLANT': dashObj.coolantVal,
  192:
                        'diag': diagObj.props,
  193:
  194:
                      return dict
  195:
  196:
  197:
                    onCurrentIndexChanged: function(){
  198:
                      // console.log(this.currentIndex)
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199:
                    var text = ""
200:
                    if(this.currentIndex == 0)
201:
                      text = firstPage.objectName
202:
203:
                      text = secondPage.objectName
204:
                      if(text == "Diagnostics")
205:
                        diagObj.props.refreshModel();
206:
207:
208:
                    sendInfo(text);
209:
                    // HeaderInfo.create(header_list['text'])
210:
211:
212:
213:
                  Item {
214:
                    id: firstPage
                    objectName: "Dashboard"
215:
216:
217:
                    Dash{
218:
                        id: dashObj
219:
                        anchors.horizontalCenter: parent.horizontalCenter
220:
                        anchors.verticalCenter: parent.verticalCenter
221:
                        context: main
222:
223:
                  }
224:
225:
                  Item {
226:
                    id: secondPage
227:
                    objectName: "Diagnostics"
228:
229:
                    Diagnostics{
230:
                        id: diagObj
231:
                        // Items.Button{
232:
                        //
                             text: "Settings"
233:
                        //
                             style: main.config['style']['current']
234:
                             implicitWidth: 100
                        //
235:
                             onClicked: stack.push(view2)
                        //
236:
                             anchors.bottom: parent.bottom
                        //
                        // }
237:
238:
                        anchors.horizontalCenter: parent.horizontalCenter
239:
                        anchors.verticalCenter: parent.verticalCenter
                        context: main
240:
241:
                  }
242:
243:
244:
245:
246:
               PageIndicator {
247:
                 id: indicator
248:
249:
                 count: swipeView.count
250:
                 currentIndex: swipeView.currentIndex
251:
252:
                 anchors.bottom: swipeView.bottom
253:
                 anchors.horizontalCenter: parent.horizontalCenter
254:
                }
255:
256:
257:
           }
258:
259:
260:
           Component.onCompleted: function(){
261:
262:
               if(style == null)
263:
                 return;
264:
               sendInfoExtended("Connecting...", function(){
265:
                 // console.log("connection-established: " + main.diagnostics['connecti
266:
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on-established'])
  267:
                    return main.diagnostics['connection-established']
  268:
                  });
  269:
  270:
                  if(main.handler['dev']){
  271:
                    console.log("DEV MODE ENABLED!")
  272:
                    printTest()
  273:
  274:
  275:
  276:
               stategroup.state = style;
  277:
             }
  278:
  279:
  280:
             StateGroup {
  281:
                id: stategroup
                states: [
  282:
  283:
                    State {
                      name: "dark"
  284:
  285:
                      PropertyChanges { target: root; color: "#000123"}
                    },
  286:
  287:
                    State {
  288:
                      name: "light"
  289:
                      PropertyChanges { target: root; color: "white"}
  290:
  291:
                ]
  292:
              }
  293:
  294:
  295:
  296:
  297:
  298:
  299:
            }
  300:
  301: }
```