## Dash.qml

## /carberry/partials/Dash.qml

```
2: * File: Dash.qml
 3: * Description: Dashboard (main screen) component. Contains speed gauge, rpm
                    gauge, and thermometer
 5: * Project: Carberry Pi
 6: * Author: Ryan McHugh
 7: * Year: 2020
 8: */
 9: import QtQuick 2.11
10: import QtQuick.Window 2.4
11: import QtQuick.Controls 2.4
12: import QtQuick.Controls.Styles 1.4
13: import QtQuick.Layouts 1.3
14: import QtQuick.Extras 1.4
15: import "../js/rectCreation.js" as RectScript
16: import "../items" as Items
17:
18:
19: Frame{
20:
        id: root_dash
21:
        property var context: null
22:
23:
        // Test alias
24:
        property alias speedVal: speedGauge.value
25:
        property alias rpmVal: rpmGauge.value
26:
        property alias coolantVal: coolantGauge.value
27:
28:
        clip: true
29:
30:
        implicitWidth: 700
31:
        implicitHeight: 420
32:
33:
        Item{
34:
35:
            // anchors.fill: parent
36:
            id: grid
37:
            anchors.fill: parent
38:
39:
            // flow: GridView.FlowTopToBottom
40:
41:
            // model: context
42:
43:
            // delegate: dashDelegate
44:
45:
            // Loader { sourceComponent: dashDelegate; dash_context: context }
46:
            // Component {
47:
                   id: dashDelegate
48:
49:
            Component.onCompleted: function() {
50:
              if(context == null)
51:
52:
53:
              grid.state = context.config['style']['current']
            }
54:
55:
56:
                Column{
57:
                  id: dashboard
58:
                  // Component.onCompleted: RectScript.rectCreation(dashboard, model)
59:
                  anchors.horizontalCenter: parent.horizontalCenter
                  Row{
60:
61:
                       leftPadding: 20
                       // Label{text: "Speed: " + model.speedValue}
62:
63:
                      Column {
64:
                        padding: 10
65:
                         CircularGauge {
66:
                           id: speedGauge
67:
                           objectName: "gauge_speed"
68:
                          property var prop_color: "black"
```

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```
69:
                              value: context.handler['speed']
   70:
                              minimumValue: 0
                              maximumValue: context.config['locality']['current'] == "en-U"
   71:
s" ? 140 : 250
   72:
   73:
                              style: CircularGaugeStyle{
   74:
                                tickmark: Rectangle {
   75:
                                   implicitWidth: outerRadius * 0.02
   76:
                                   implicitHeight: outerRadius * 0.05
   77:
                                   color: speedGauge.prop_color
   78:
                                   antialiasing: true
   79:
   80:
   81:
                                 labelStepSize: context.config['locality']['current'] == "e
n-US" ? 10 : parent.maximumValue / 10
                                tickmarkLabel: Text{
   83:
   84:
                                   font.pixelSize: Math.max(6, outerRadius * 0.1)
   85:
                                   text: styleData.value
   86:
                                   color: speedGauge.prop_color
   87:
                                 }
   88:
   89:
                                minorTickmark: Rectangle {
                                   implicitWidth: outerRadius * 0.01
   90:
   91:
                                   implicitHeight: outerRadius * 0.03
   92:
                                   color: speedGauge.prop_color
   93:
                                   antialiasing: true
   94:
                                 }
   95:
   96:
                              Items.Label{
   97:
                                style: context.config['style']['current'] + "_grey"
                                text: context.config['locality']['current'] == "en-US" ? "
   98:
mph": "km / h"
   99:
                                 anchors.horizontalCenter: parent.horizontalCenter
  100:
                                 anchors.bottom: parent.bottom
  101:
                                 anchors.bottomMargin: 20
  102:
                                padding: 0
  103:
  104:
                            }
  105:
  106:
  107:
  108:
                          }
  109:
  110:
  111:
                          Column {
                            padding: 10
  112:
                            // Label{text: "RPM: " + model.rpmValue}
  113:
  114:
                            CircularGauge {
  115:
                              id: rpmGauge
  116:
                              objectName: "gauge rpm"
  117:
                              property var prop_color: "black"
  118:
                              value: context.handler['rpm']
  119:
                              minimumValue: 0
  120:
                              maximumValue: 8000
  121:
  122:
                              style: CircularGaugeStyle{
  123:
                                labelStepSize: 1000
  124:
                                tickmarkStepSize: 500
  125:
                                minorTickmarkCount: 10
  126:
  127:
                                tickmark: Rectangle {
  128:
                                   implicitWidth: outerRadius * 0.02
  129:
                                   implicitHeight: outerRadius * 0.05
  130:
                                   color: rpmGauge.prop_color
  131:
                                   antialiasing: true
                                 }
  132:
  133:
```

200:

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  134:
                                 tickmarkLabel: Text{
  135:
                                   font.pixelSize: Math.max(6, outerRadius * 0.1)
  136:
                                   text: styleData.value
  137:
                                   color: rpmGauge.prop_color
                                 }
  138:
  139:
  140:
                                 minorTickmark: Rectangle {
  141:
                                   implicitWidth: outerRadius * 0.01
  142:
                                   implicitHeight: outerRadius * 0.03
  143:
                                   color: rpmGauge.prop_color
  144:
                                   antialiasing: true
                                 }
  145:
  146:
                                 // needle: Rectangle{
  147:
                                 //
                                      y: outerRadius * 0.15
  148:
                                 //
                                      implicitWidth: outerRadius * 0.03
  149:
                                      implicitHeight: outerRadius * 0.9
  150:
                                 //
                                      antialiasing: true
                                      color: "blue"
  151:
                                 //
                                 // }
  152:
  153:
  154:
                               Items.Label{
  155:
                                 style: context.config['style']['current'] + "_grey"
  156:
                                 text: 'rpm'
  157:
                                 anchors.horizontalCenter: parent.horizontalCenter
  158:
                                 anchors.bottom: parent.bottom
  159:
                                 anchors.bottomMargin: 20
  160:
                                 padding: 0
  161:
                             }
  162:
  163:
  164:
                          }
  165:
  166:
  167:
                      }
  168:
  169:
  170:
                      Column{
  171:
                        anchors.horizontalCenter: parent.horizontalCenter
  172:
                        anchors.horizontalCenterOffset: -75
  173:
                        Row{
  174:
                          Items.Label{
  175:
                               Component.onCompleted: function(){
  176:
                                 var loc = context.config['locality']['current']
  177:
                                 if(loc == "en-US")
  178:
                                   text = "Engine Temp (°F)"
  179:
                                 else
  180:
                                   text = "Engine Temp (\hat{A}^{\infty})"
  181:
  182:
                               text: "Engine Temp" ;
  183:
                              padding: 30;
  184:
                               style: context.config['style']['current'] + " grey"
                             }
  185:
  186:
                          Items.Thermometer{
  187:
                            id: coolantGauge
  188:
                            value: context.handler['engine_temp']
  189:
                            context_style: context.config['style']['current']
  190:
  191:
                        }
  192:
                        // Row{
  193:
  194:
                        11
                             leftPadding: 40
  195:
                        //
                              Items.Thermometer{value: context.diagnostics['OIL_TEMP']; con
text_style: context.config['style']['current']}
  196:
                             Items.Label{text: "Oil Temp"; padding: 30;
                        //
  197:
                                  style: context.config['style']['current']}
                        //
                        // }
  198:
  199:
```

```
201:
                    }
202:
203:
                  // }
204:
205:
206:
207:
208:
209:
                }
210:
211:
                states: [
                  State {
212:
213:
                    name: "dark"
214:
                    PropertyChanges {
215:
                      target: speedGauge
216:
                      prop_color: "white"
217:
                    PropertyChanges {
218:
219:
                      target: rpmGauge
                      prop_color: "white"
220:
                    }
221:
222:
                  },
223:
                  State {
224:
                    name: "light"
225:
                    PropertyChanges {
226:
                      target: speedGauge
227:
                      prop_color: "black"
228:
229:
                    PropertyChanges {
230:
                      target: rpmGauge
231:
                      prop_color: "black"
232:
233:
                  }
234:
                ]
235:
236:
         }
237:
238:
239:
240:
241: }
242:
```