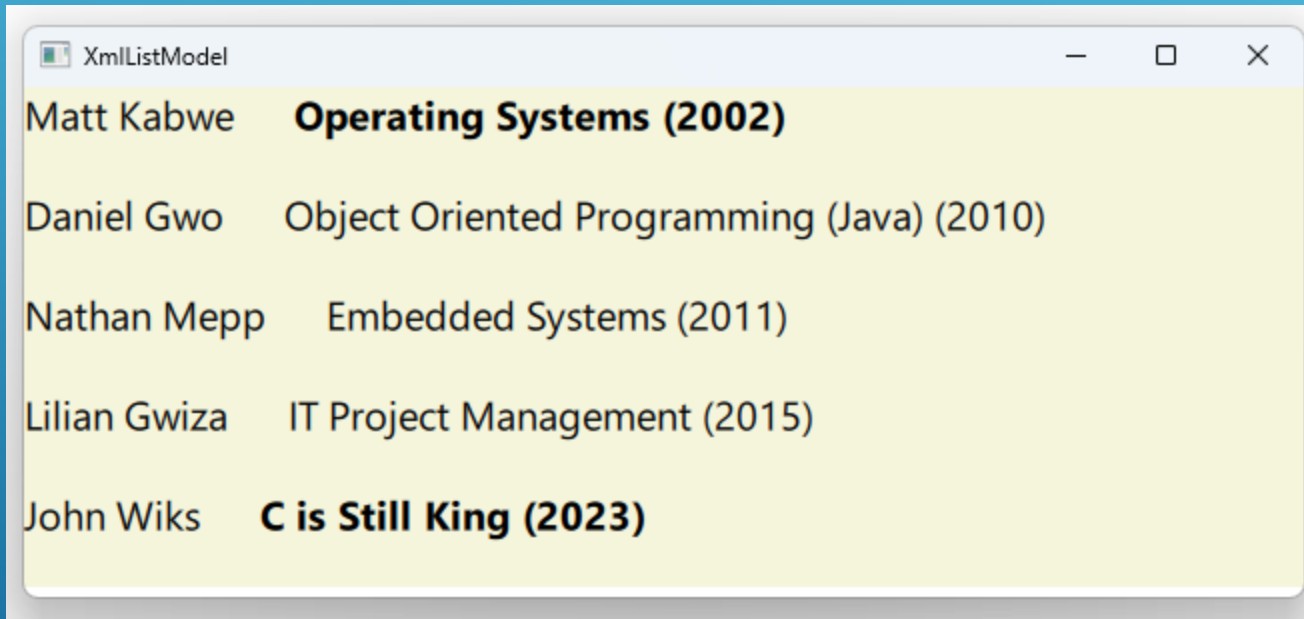


Notes to self

- . In Qt6 XmlListModel doesn't support XPath queries
 - . It supports simple slash-separated paths and, optionally, one attribute for each element
 - . The query :
 - . query: "/courses/course"
will target each course element in the XML file and turn it into an item for our model
- . We grab the data in the instructor element and make it available in our model under the role "instructor" :
 - . XmlListModelRole { name: "instructor"; elementName: "instructor" }
 - . elementName specifies the element name in the xml file
 - . name specifies the role this will be available as in the view
- . We also read the year and coursename in the same way
- . We also read the hot attribute of the coursename element and make it available under the role hot, in the model.
- . All these XmlListModelRoles are just setting up the roles under which the data will be available in our model :

```
XmlListModelRole { name: "instructor"; elementName: "instructor" }
XmlListModelRole { name: "year"; elementName: "year" }
XmlListModelRole { name: "coursename"; elementName: "coursename" }
XmlListModelRole { name: "hot"; elementName: "coursename"; attributeName: "hot" }
```
- . Point to the documentation for XmlListModel and XmlListModelRole for more examples.

XmlListModel



employees.xml

```
<?xml version="1.0" encoding="utf-8"?>
<courses>
  <course>
    <instructor>Matt Kabwe</instructor>
    <year>2002</year>
    <coursename hot ="true">Operating Systems</coursename >
  </course>
  <course>
    <instructor>Daniel Gwo</instructor>
    <year>2010</year>
    <coursename hot = "false">Object Oriented Programming (Java)</coursename >
  </course>
  ...
</courses>
```

The model

```
XmlListModel {  
    id: mXmlListModelId  
    source: "qrc:/xml/employees.xml"  
    query: "/courses/course"  
  
    XmlListModelRole { name: "instructor"; elementName: "instructor" }  
    XmlListModelRole { name: "year"; elementName: "year" }  
    XmlListModelRole { name: "coursename"; elementName: "coursename" }  
    XmlListModelRole { name: "hot"; elementName: "coursename"; attributeName: "hot" }  
}
```

The view

```
ListView{
    id : mListViewById
    model : mXmlListModelId
    delegate: Rectangle {
        color : "beige"
        Row {
            Text {
                text : instructor
            }
            Text {
                text : coursename + " (" + year + ")"
                font.bold: hot=="true"?true:false
            }
        }
        MouseArea {
            onClicked: {
                console.log("Clicked on : "+ hot)
            }
        }
    }
}
```

CMake

```
find_package(Qt6 6.2 COMPONENTS Quick QuickControls2 REQUIRED)
...
target_link_libraries(app2-Button
    PRIVATE Qt6::Quick Qt6::QuickControls2)
```