Qt Group

Qt Quick Developer Certificate Curriculum

Qt 6.12 LTS

PUBLIC

1. Qt Quick Developer (Qt 6.12 LTS)

This test is designed for Qt Quick developers pursuing certification of fundamental aspects in Qt Quick and QML within the Qt Framework. The test covers key topics of QML language concepts, layouts, user interaction, Qt Quick Controls, model / view framework, and QML - C++ integration. Upon successfully passing the test, you will be awarded the Qt Quick Developer certificate.

The exam contains 50 single- and multi-select questions and the passing score is 65%.

QML Language Concepts

- Element hierarchy, parents and children
- Visual parenting
- Stacking order
- Types, properties, attached properties
- Property bindings
- Signals
- Methods
- Connections type
- Custom items
- Custom properties and property aliases
- The module concept
- Internationalization and localization

Layouts

- Nested layouts
- Anchors: anchor lines and item-based anchors, margins
- Positioners: row, column, grid, flow, spacing
- Element coordinates
- Qt Quick Layouts

User Interactions

- Mouse interactions
- Input Handlers

Qt Quick Controls

- Stucture of Quick Controls
- Application window
- Views
- Dialogs

Dynamic QML

- Loader

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- Repeater and Instantiator

Model / view Framework

- Basic concepts: roles and indices
- QML views: ListView, TableView, TreeView
- Delegates
- Delegate creation and lifecycle
- Delegate caching
- Using C++ models with QML (QAbstractItemModel-based)

QML – C++ integration

- QML engine functionality at the high level
- Exposing properties and objects
- Using QObject to define new types
- Type registration

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