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Why?

- Anything that needs cross-platform deployment strategies between mobile and non-mobile
- Low-level access from a high-level common environment
- Porting to multiple desktop, console, or mobile platforms

Prerequisites

- **Qt5 installer** & run to install Qt Creator
- **The Android SDK Tools**
- **Android NDK**
- Apache Ant v1.8 or later
- Java SE Development Kit (JDK) v6 or later

Setting up Environment

- Launch Qt Creator
- Create new project and select Android instead of Desktop application
- Set up path for JDK, Android SDK and NDK location, Ant path. Later you can change through tools->options->Android

Location
Component Set
➔ Kits
Summary

Kit Selection

Qt Creator can use the following kits for project **untitled**:

☐ Select all kits



Desktop Qt 5.4.1 GCC 64bit

Details ▼



Android for armeabi-v7a (GCC 4.8, Qt 5.4.1)


Details ▼


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 Text Editor


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 C++

 Qt Quick

 Build & Run


 Debugger

 Analyzer

 Version Control

 Android

 BlackBerry

 QNX

 Devices

 Code Pasting

Android

Android Configurations


JDK location:

Android SDK location:




Android NDK location:



 [The GDB in the NDK appears to have broken python support.](#)

Found 6 toolchains for this NDK.

☒ Automatically create kits for Android tool chains

 Qt versions for architectures mips, x86 are missing.
To add the Qt versions, select Options > Build & Run > Qt Versions.

☐ Use Gradle instead of Ant

Ant executable:

AVD Manager

System/data partition size:

AVD Name	AVD Target	CPU/ABI

Coding using Qt/QtQuick

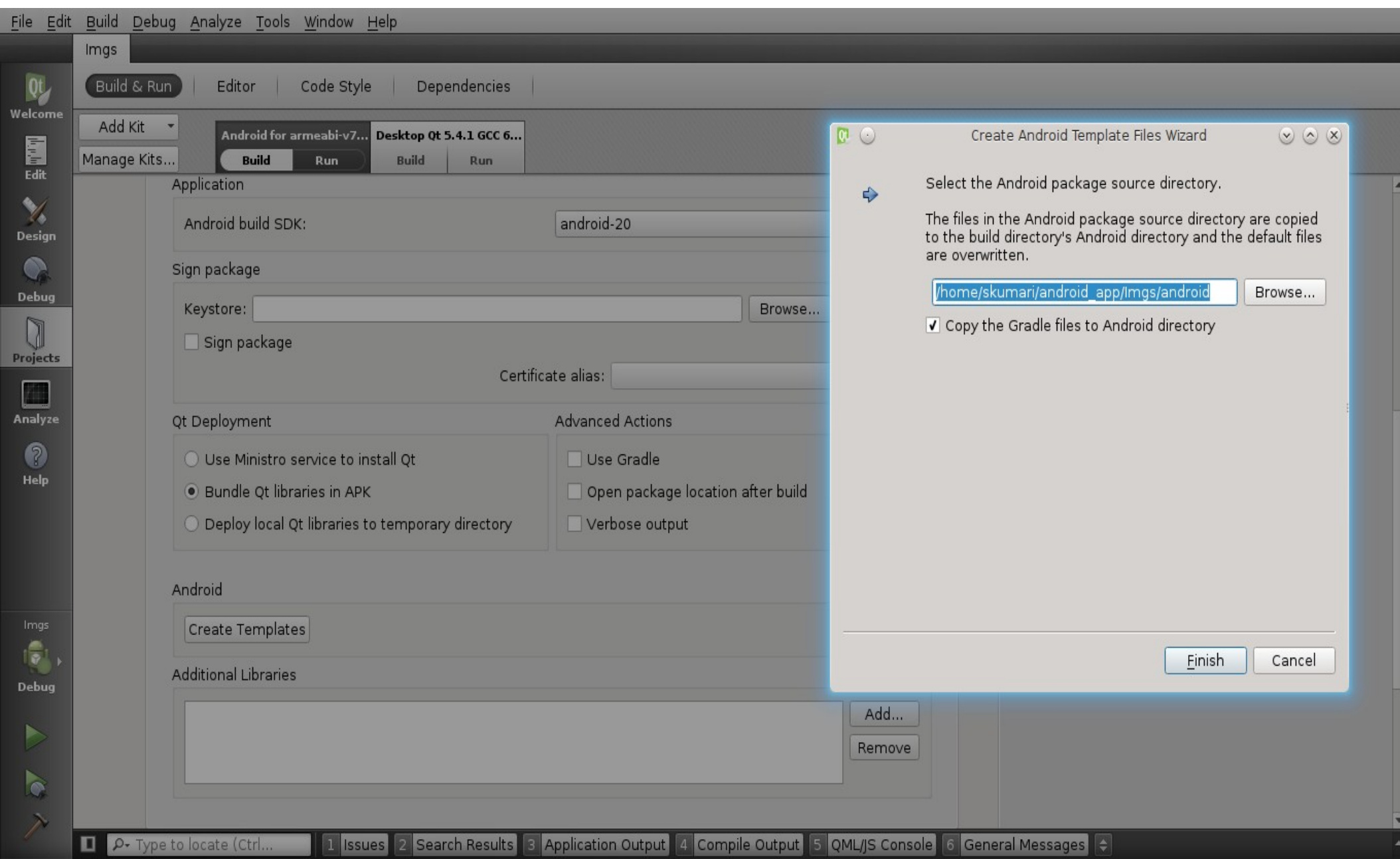
Source code -

<https://github.com/sinnykumari/Imgs>

Deploying and Publishing app to Google Play store

- Create Template
- Open AndroidManifest.xml and add needed information
- Set-up keystore to sign package
- Build your application and foo.apk signed package generated (foo-signed.apk)
- Upload your .apk package and basic information like screenshot, icons
- Login to <https://play.google.com/apps/publish>

Create template



Qt

Welcome

Edit

Design

Debug

Projects

Analyze

Help

Imgs

Debug

Open Documents

AndroidManifest.xml

main.qml

Imgs [master]

- Imgs.pro
- deployment
- Sources
- Resources
 - qml.qrc
 - main.qml
- Other files
 - android
 - gradle/wrapper
 - res/values

AndroidManifest.xml

build.gradle

gradlew

gradlew.bat

Package

Package name: org.qtproject.example

Version code: 1

Version name: 1.0

Minimum required SDK: API 9: Android 2.3, 2.3.1, 2.3.2

Target SDK: API 14: Android 4.0, 4.0.1, 4.0.2

Application

Application name: -- %%INSERT_APP_NAME%% --

Run: -- %%INSERT_APP_LIB_NAME%% --

Application icon:

Permissions

☒ Include default permissions for Qt modules.

☒ Include default features for Qt modules.

Remove

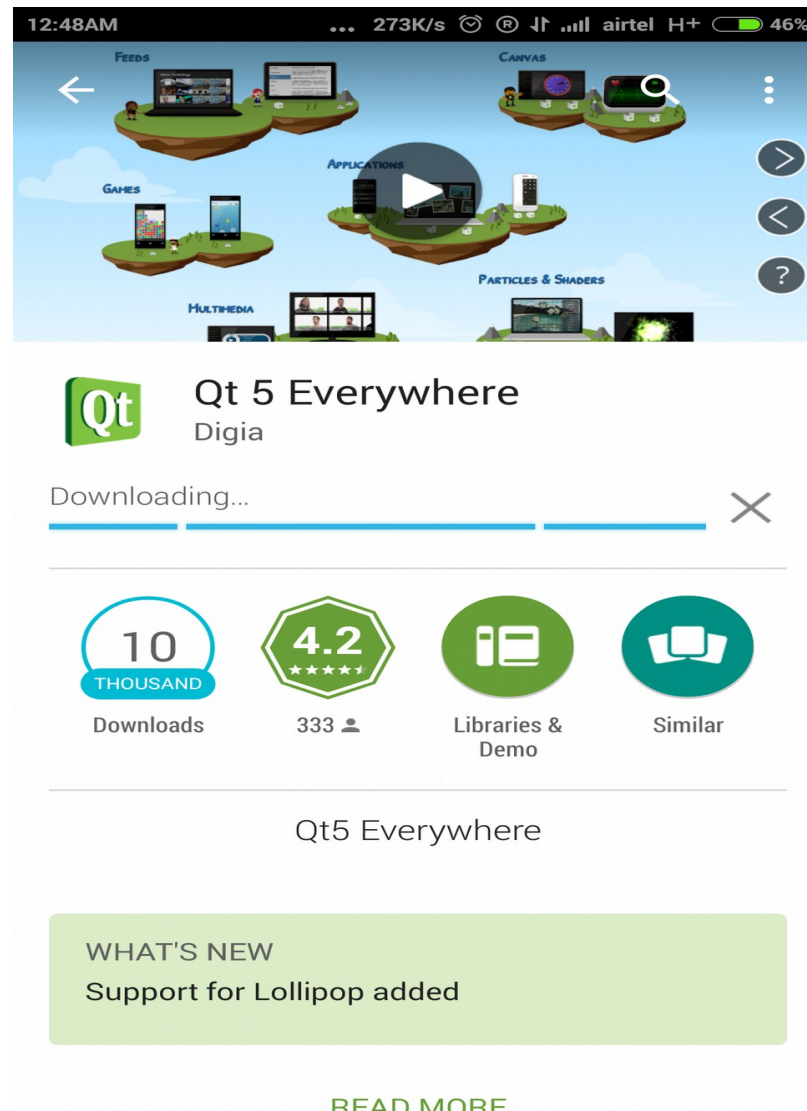
Keystore Creation

Keystore	Certificate
<p>Password: <input type="password" value="••••"/></p> <p>Retype password: <input type="password" value="••••"/></p> <p><input type="checkbox"/> Show password</p>	<p>Alias name: <input type="text" value="QtApp"/></p> <p>Keysize: <input type="text" value="2048"/></p> <p>Validity (days): <input type="text" value="10000"/></p> <p>Password: <input type="password"/></p> <p>Retype password: <input type="password"/></p> <p><input checked="" type="checkbox"/> Use Keystore password <input type="checkbox"/> Show password</p>
<p>Certificate Distinguished Names</p> <p>First and last name: <input type="text" value="Foo bar"/></p> <p>Organizational unit (e.g. Necessitas): <input type="text" value="Tools"/></p> <p>Organization (e.g. KDE): <input type="text" value="foo"/></p> <p>City or locality: <input type="text" value="Amritapuri"/></p> <p>State or province: <input type="text" value="Kerala"/></p> <p>Two-letter country code for this unit (e.g. RO): <input type="text" value="IN"/></p>	
<p><input type="button" value="Save"/> <input type="button" value="Close"/></p>	



Demo

Qt 5 Everywhere App



References

- <http://www.qt.io/>
- <http://doc.qt.io/qtcreator/creator-deploying-an-droid.html>
- <http://doc.qt.io/qt-5/androidgs.html>



???



ThankYou
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