

SELA Technologies Singapore

Level 7 #02/03 Forum The Shopping Mall Singapore 238884

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Developing Mobile Applications with Android

Description

In this three day course you will learn to develop mobile applications with the Android mobile operating system. You will learn to install and configure the Android development environment, to write your first Android application, to use the various UI elements and controls, to use the framework's resources, and to store application data in persistent storage. A large selection of labs and demos will ensure that the skills you gain in the course will be transferable to your first Android application.

Intended Audience

Developers and team leaders with at least one year of active development experience in the Java programming language.

Topics

Module 1

Hello Android!

- · Little bit of architecture
- · Platform philosophy
- The Open Handset Alliance
- · What it isn't?

Essentials

- · Installing and configuring Eclipse
- · Installing the Android SDK
- · Android platform types and versions
- · Overview of the Android NDK

Android Development Tools

- · Android device emulator
- · Dalvik Debug Monitor Service (DDMS)
- · Android Debug Bridge (ADB)

Inside the Development Environment

- Project types
- Dalvik Virtual Machine
- Basic application structure
- · Android libraries
- · Project structure
- LAB: "Hello World!" in Android

Course Fees*

SGD 1,800

Corporate Discount Fees**

SGD 1,200

Contact +65 9488 2567 or email sales@sela.com.sg for more information details

Terms & Conditions Apply:

- For items marked with*, course will proceed when requisite minimum number of participants has signed up.
- For items marked with**, Corporate Discounts rate applies with a minimum of 3 or more participants from the company for the same class. Please ask your company Human Resource (HR) representative to contact +65 9488 2567 or email sales@sela.com.sg for more information details.
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Module 2

Android Development 101 Android Application Anatomy

- What makes an Android application?
- · Application manifest
- Application lifecycle
- Resources and system resources
- · Application priority and process state
- Localization

Activities

- · What is an activity?
- · Creating activities
- · Activity states
- · Activity state changes
- Sub-activities
- Built-in activity classes

UI Design Fundamentals

- Code and UI separation
- XML elements and attributes describing UI

Views, Controls, Widgets, and Layouts

- Introducing views
- Layouts
- · Selectors and lists
- Menus, sub-menus, and context menus
- Fonts
- · WebKit browser
- · Custom widgets and controls
- LAB: Restaurant tab splitter and tip calculator (all in one activity)

Module 3

Intents, Adapters, and Dialogs Introducing Intents

- Built-in intents and Linkify
- Launching activities and sub-activities
- Returning data from activities
- Intent filters
- · Implicit intents
- · Retrieving available actions via introspection
- · Broadcast intents and receivers

Introducing Adapters

- Built-in Android adapters
- · Adapters and data binding



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Introducing Dialogs

- · Built-in dialogs and the dialog builder
- Activities as dialogs

LAB

- TODO list
- Item editor (separate activity)
- Using the contact picker ("call" TODO item) OR inputting phone number manually
- Using the dialer (when clicking a "call" TODO item)

Module 4

Storing and Consuming Data Preferences

- · Saving activity state
- · Preference pages
- · Shared preferences
- · Local storage
- · Accessing files
- File management tools

Local Database

- SQLite overview
- Managing and accessing SQLite
- Cursors and content values

Content Providers

- · Using content providers
- · Built-in content providers
- · Custom content providers

LAB

- Persisting the TODO list (SQLite)
- Persisting the TODO preferences (SharedPreferences)
- Persisting the TODO UI state, e.g. the item text (activity Bundle)
- (OPTIONAL) Exposing the TODO items through a content provider and using them from another application

For more info please click on the link:

http://sela.com.sg/Developing-Mobile-Applications-with-Android.html

For further information details, email to sales@sela.com.sg or please call +65 9488 2567.