



ANDROID

Bootcamp

2014

Overview

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DEVELOPERACADEMY



- IT Education Organization
- Mission statement

Empowering nation through professional
programming courses

Instructor

- M.Eng in Computer Engineering
- Experience on C/C++, C#, Java, Objective-C, PHP, Javascript
- Worked on desktop, mobile, website and server application

Summary

- This is an introduction to developing apps for the Android platform. The course will cover using the required developer tools, app fundamentals like activities and intents, layout, basic controls like buttons and lists, menus and dialogs, and publishing app.

Courses Timeline

- Four days
 - 3 sessions each day
 - 1.5 – 2 hours each session
- In final session, participant will build an app

Courses Method

- Instructor will explaining the concept and demonstrate with live coding
- Participant will do code directly following instructor
 - Programming are skill obtained by practice

Overall Objectives

- Enhance java programming language skill
- Understanding Android development concept
- Know how create simple Android app
- Know how to publish app to Google Play

Prerequisites

- Basic Java programming language
- OOP concept in Java
- Proficient in English

References

- <http://developer.android.com>
- Learning Android by Marko Gargenta.



Day 1 - Introduction

First session

- Introduction to Android
- Development environment setup
- Android architecture

Second session

- First app – Currency converter
- Exploring Android project
- Developing Android UI
- Compile and deploy Android APK

Third session

- Exploring Android development toolbox
- Android application building blocks



Currency Converter

USD to RP

1

Convert

11600.0



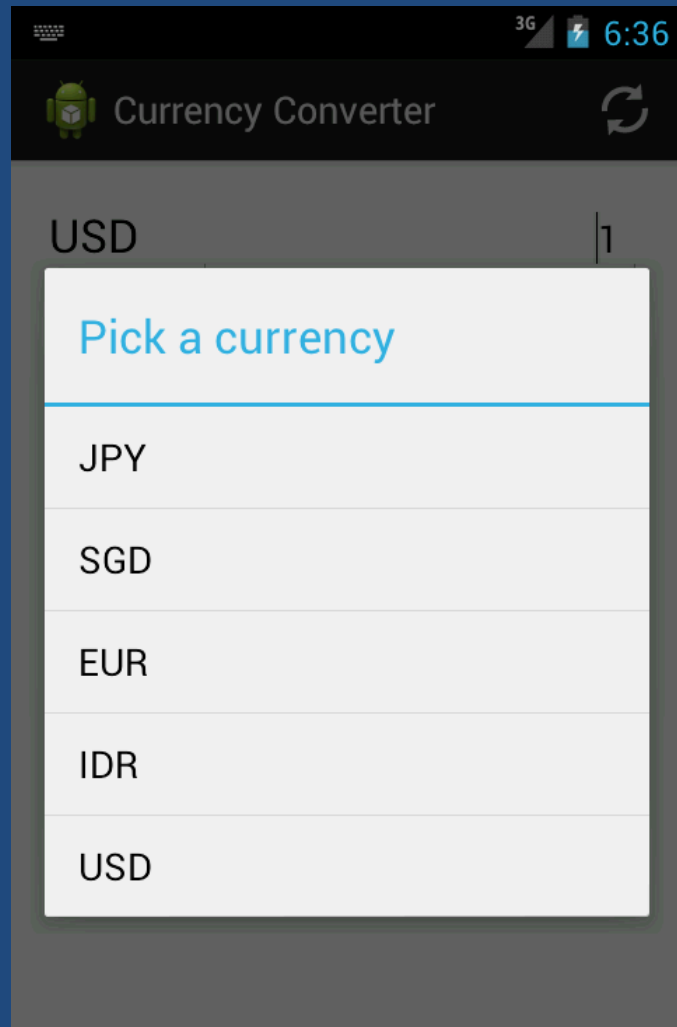
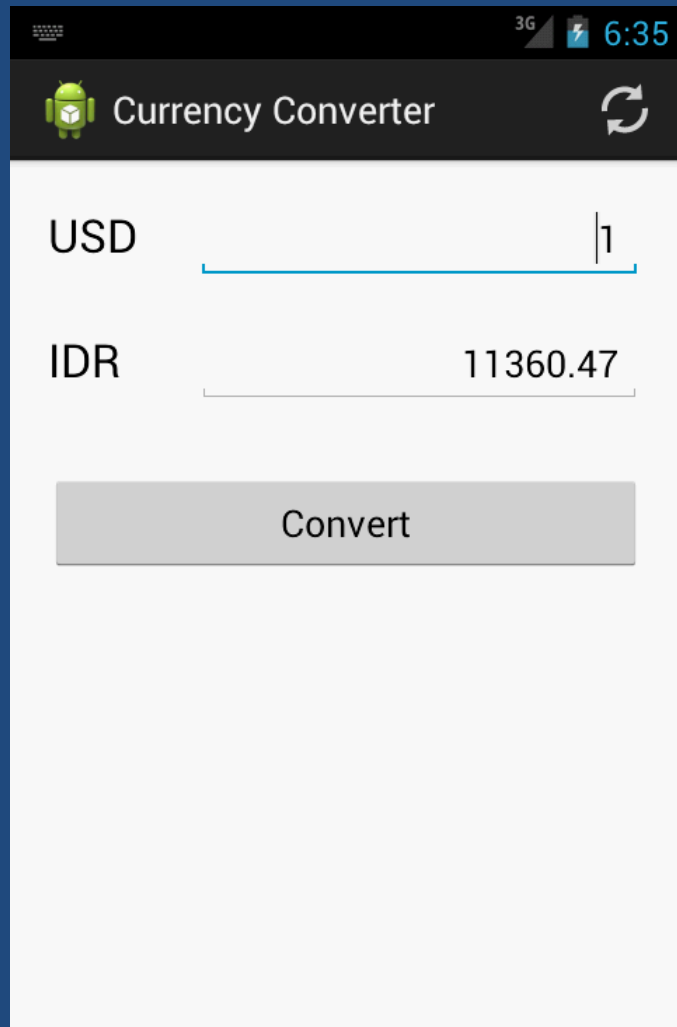
Day 2 – Improving Currency Converter

First session

- Using Dialog
- Mobile app architecture
 - Server – Client app model
 - HTTP GET and POST

Second session

- Networking in Android
- Handling JSON data
- Using shared preferences



Third session

- Second App - News Reader
- News Reader API
- Login Activity



3G 6:54



Login

Login to NewsReader

john

.....

Login



Day 3 – News Reader

First session

- ListView and Adapters
- Preference Activity

Second session

- SQLite
- Image Viewer
- News Content Activity
- Share

Third session

- Google Play



Day 4 – Tablet App

First session

- Fragments
- Tablet layout

Second session

- Build your own app



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