

learn

© iKompass

experiment

know

help

assimilate

IKOMPASS  
ANDROID

# WORKSHOP

## FEATURES



**6 Days classroom**  
2 extra days if no coding exp



**Assignments with solutions**



**Based on best practices**



**1 year access to videos**

## WHAT TO BRING



**Laptop**  
With minimum of 4 GB RAM



**Eclipse Installed**  
Eclipse is the tool used to build apps. It is free to download



**Positive Attitude**  
Learning a new skill is not easy, a positive attitude is necessary



**Questions**  
We want you to ask a lot of questions in class

## TYPICAL DAY



**Concept explanation**  
Our trainers will explain the concept and show you the steps



**Learn by Doing**  
You will complete the steps that the trainer showed you



**Challenge of the Day**  
Each day you will write code to build an app with our help



**Demo & Retrospective**  
We will randomly choose one participants' code to review

## REGISTRATION

EMAIL

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+ 65 66381203

ENROLL

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# WHAT IS COVERED



## PROGRAMMING BASICS

OPTIONAL MODULE. FOR THOSE WITH NO PROGRAMMING EXPERIENCE, THIS MODULE COVERS THE BASICS OF WRITING GOOD CODE. STARTING WITH THE BASICS OF JAVA, THIS MODULE INTRODUCES PARTICIPANTS TO OBJECT ORIENTED PROGRAMMING



## ANDROID INTRODUCTION

INTRODUCTION TO MOBILITY AND TYPE OF APPS HYBRID, NATIV, WEB. INTRODUCTION TO ANDROID AND ITS ARCHITECTURE. INTRODUCTION TO VIEW COMPONENTS IN ANDROID. APPLICATION COMPONENTS IN ANDROID.



## ECLIPSE, LAYOUTS, MENUS

WHAT IS ECLIPSE, ANDROID EMULATOR, DDMS, ADT. CREATING HELLO WORLD APP AND EXPLANATION OF ANDROID PROJECT STRUCTURE. LISTENERS IN ANDROID ex: ONCLICK, ONITEMCLICK. HOW TO SHOW A TOAST IN ANDROID. LIFECYCLE, LAYOUTS AND MENUS.



## WIDGETS AND VIEW DETAILS

WIDGETS IN ANDROID, CHECKBOX, RADIOBUTTON, TOGGLEBUTTON, GRIDVIEW, LISTVIEW, AUTOCOMPLETETEXTVIEW, SPINNER, WEBVIEW. ADAPTER CLASS CONCEPT TO SUPPLY DATA FOR AUTOCOMPLETETEXTVIEW.



## MEDIA PLAYER

APP THAT SHOWS MEDIA PLAYER MP3 SAMPLE AND VIDEO PLAYER. MEDIAPLAYER CLASS CAN BE USED TO CONTROL PLAYBACK OF AUDIO/VIDEO FILES AND STREAMS. ANDROID SDK IS PROVIDING MEDIAPLAYER CLASS TO ACCESS ANDROID IN BUILT MEDIAPLAYER SERVICES LIKE PLAYING AUDIO, VIDEO ETC.



## WEB SERVICES AND JSON

THE ANDROID PLATFORM INCLUDES THE JSON.ORG LIBRARIES WHICH ALLOW WORKING EFFICIENTLY WITH JSON FILES. BUT YOU CAN ALSO EASILY INTEGRATED OTHER SOLUTION FOR PARSING JSON FILES.



## STORAGE

STORE APPLICATION DATA IN DATABASES, FILES, OR PREFERENCES, IN INTERNAL OR REMOVEABLE STORAGE. YOU CAN ALSO ADD A DATA BACKUP SERVICE TO LET USERS STORE AND RECOVER APPLICATION AND SYSTEM DATA. SQLITE DATABASE



## GOOGLE MAPS

WITH THE GOOGLE MAPS ANDROID API, YOU CAN ADD MAPS BASED ON GOOGLE MAPS DATA TO YOUR APPLICATION. THE API AUTOMATICALLY HANDLES ACCESS TO GOOGLE MAPS SERVERS, DATA DOWNLOADING, MAP DISPLAY, AND RESPONSE TO MAP GESTURES. BASIC MAP, CHANGE THE USERS VIEW OF A PARTICULAR MAP AREA



## OTHER STUFF.....

PERSISTENCE  
DATA MODELING/MVC  
CLOUD MESSAGING  
PUSH NOTIFICATIONS  
CERTIFICATION

# WHY ANDROID MATTERS?

The worldwide smartphone market grew 27.2% year over year in the second quarter of 2014 (2014Q3), just over a third of a billion shipments at 335 million units, according to data from the International Data Corporation (IDC) Worldwide Quarterly Mobile Phone Tracker. At this pace, 2015 promises to close at nearly 1.3 billion shipments, with Android taking the lion's share, spread across over 180 tracked vendors.

## EXPERT TRAINERS



SANAT

Sanat has over 13 years experience in the software development industry. He has worked with fortune 500 companies running large scale software projects in various roles including that of project manager, solution architect, sponsor and development lead. Sanat has been developing Android applications since 2008 for his enterprise clients in the area of finance and payment systems. His main strengths lies in developing native applications that integrate with existing web services using JSON . Sanat is a foodie and lives trying our new recipes



PRAKASH

Prakash has over 10 years experience in writing code and is a big fan of Object Oriented Programming. He is an expert in Spring MVC and has been working with web based applications for big companies. He has a wealth of experience gained from companies such as HP, Barclays, Ericsson. He loves mobile applications development and has been developing apps for the past 3 years. His strength lies in creating solutions for complex apps including games. He is an avid scuba diver and loves to travel when he gets time.



DEV

Dev has over 5 years of experience in applications development. For the past 4 years, he has been working solely in building apps on the Android platform. He is an expert in Java and has recently moved to becoming an expert in iOS. He has created many apps on the app store covering education, lifestyle and games. He loves to build educational apps for kids that encourages their inquisitive nature. His main strength lies in working with the different frameworks such as MapKit, SpriteKit etc., Dev loves singing and dancing.

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