

# Android programming (advanced) (code: ANDROID-201)

#### **Overview**

The training supplements Android 101 material with more advanced topics, related to using more complex APIs, among which are the internal database and 3D graphics.

## **Duration**

2 days

## **Agenda**

- 1. Using all of the phone's capabilities:
  - camera, video camera;
  - sound recording;
  - GPS, compass;
  - filesystem and SD card handling;
  - texting.
- 2. Data handling:
  - Internal SQL database:
    - SQlite peculiarities;
    - using cursors;
    - binding database data to GUI.
  - preferences
  - serializing context.
- 3. Advanced graphics topics:
  - using mapcontroller (including own layers);
  - introduction to 3D graphics (OpenGL ES):
    - handling hardware, declarations in the manifest (including, e.g., texture compression);
    - fundamentals of 3D graphical processing: matrices, surfaces, vertices;
    - projection, scene, initial configuration;
    - shaders;
- 4. System integration:
  - custom ContentProvier;
  - user notifications;
  - custom Services and Intents:
  - custom BroadcastReceiver.
- 5. Background applications and threading:
  - managing locks;
  - Alarm Manager, BootReceiver;
  - Handlers, inter-thread communication.

# Target audience and prerequisites

Training participants should know the material cover in \*Android 101\* course and be familiar with Java.

#### **Certificates**

Course participants receive completion certificates signed by ALX.

Ask for details

Phone +44 203 608 6289 info@alx.academy



## Locations

- Warsaw (English) Jasna 14/16A
  Online (English) your home, office or wherever you want
  any other location (London, UK, EU) on request

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# **Price**

740 EUR

The price includes:

- course materials,
- snacks, coffee, tea and soft drinks,
- course completion certificate,
- one-time consultation with the instructor after course completion.