GDG Developer Camp 2015

At National Advanced School of Posts & Telecommunications of Yaoundé (ENSPT)

August, 2015

Agenda of Android Training

08/04/2015	
3pm-6pm	**Android Training:** Lesson 1: Create Project with a Simple UI (part 1)
	Starting by installing Android Studio, you'll create your first project with a simple list-based user interface and built and deploy it to virtual and actual devices. You'll also discover what makes mobile - and Android in particular - a unique environment for app development.
	• **Android Studio, Gradle, and debugging tools**
	• **Life cycle of activity**
3pm-6pm	**08/05/2015**
	Android Training: Lesson 1: Create Project with a Simple UI (part 2)
	• **User Interface and Layout managers**
	• **ListViews and Adapters Array**
	08/07/2015
3pm-7pm	**Android Training:** Lesson 2: Create New Activities and Navigate Apps with Intents
	Give your app structure and create more complex Activities. You'll learn about Android's Intent framework, and how to use Intents to navigate between Activities, both within your app and as a way to add 3rd party functionality.
	• **App navigation with Explicit Intents**
	• **Share Intent and the Android sharing framework**
	08/11/2015
3pm-6pm	**Android Training:** Lesson 3: SQLite databases (part 1)
	Learn how to create databases, use Android's Content Providers to provide an abstraction layer between your data and your UI implementation, and use Loaders to efficiently load stored data.
	• **SQLite database**
	• **Creating and using a Content Provider as an abstraction layer**
	08/12/2015
3pm-6pm	**Android Training:** Lesson 3: SQLite databases (part 2)
	• **Creating Adapters "BaseAdapter" to bind UI 'listView ' components to Content Providers**
	08/14/2015
3pm-7pm	**Android Training:** Lesson 4: Implement Rich and Responsive Layouts (part 1)
	Create rich, responsive user interfaces that work across a variety of different hardware types and screen sizes.
	• **Fundamental Android design principles**
	• **Optimizing tablet UIs using Fragments**
	08/16/2015
9am-12pm	**Android Training:** Lesson 4: Implement Rich and Responsive Layouts (part 2)
	• **Custom views**
	• **Completion of the project with deployment of the application in Google Play.**

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		Agenda of Google Cloud Training
5pm-7pm		**08/06/2015**
	App Engine Training: App Engine Architecture and Optimization	
	▪ Life of a Request ▪ App Engine Design Principles ▪ Hands-On Lab Exercise	
		08/08/2015
8am-10am	**App Engine Training:** Managing Your App	
	o Admin Console o Billing and Quotas o SLA and Premium Account o Hands-On Lab Exercise	
10am-12pm	**App Engine Training:** User APIs and Authentication	
	▪ OAuth2 ▪ Configuring Your App's Authentication ▪ Hands-On Lab Exercise	
		08/13/2015
5pm-7pm	**App Engine Training:** Datastore	
	▪ Basic Concepts ▪ Datastore internals ▪ API ▪ Query ▪ Index ▪ Transaction ▪ Hands-On Lab Exercise	
		08/15/2015
8am-9am	**App Engine Training:** Memcache Basics	
9am-12pm	**Cloud Training:** Cloud EndPoints	
	▪ Basic concept ▪ Add Cloud Backend in Android App ▪ Create Entity Class and EndPoint Class ▪ Generation Client API ▪ Hands-On Lab Exercise	

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Agenda of Code Lab

08/17/2015	
5pm-5:45pm	**Code Lab/Android: Profiling GPU Rendering Codelab**
	In this codelab you will learn how to turn on Profile GPU Rendering on your mobile device. Profile GPU Rendering gives you a quick visual representation of how much time it takes to render the frames of a UI window relative to the 16-ms-per-frame benchmark.
6pm-7pm	**Code Lab/Android: Unit and UI Testing in Android Studio**
	In this codelab, you'll learn how to set up your project in Android Studio for testing, write a Unit Test and run it locally on your development machine and also how to do functional UI testing on the device
08/18/2015	
5pm-7pm	**Code Lab/Cloud Platform: Google Compute Engine: Compute the Cosmos**
	Use a VM instance to process public astronomical data to generate a viewable image.
08/20/2015	
5pm-6pm	**Code Lab/Geo: Going Places with Android**
	Check-In apps are so last year. Let's build a simple Check-Out app using the Android Places API and Firebase to find the hottest places people are leaving.
6pm-7pm	**Code Lab/Geo: Building GeoFences into your Android App**
	In this codelab you'll learn how to use geo fences in an Android app.
08/21/2015	
5pm-6pm	**Code Lab/Search: Add Voice Interactions to Your App**
	In this codelab, you'll learn how to add voice interactions to your app with the Voice Interaction API. You'll build a voice-powered camera app that responds to the voice command "take a photo" and prompts you for confirmation before taking the photo.
6pm-7pm	**Code Lab/Search: Get Search Autocomplete from Deep Links**
	In this codelab, you'll learn how to add deep links from your website to your app.
08/24/2015	
5pm-5:30pm	**Code Lab/Android: Building Apps that Sign In with Google**
	In this codelab, you'll learn how to add a Sign In with Google button to your Android App and use it to allow your users to sign in with the Google ID
5:30pm-6pm	**Code Lab/Android: Visualizing Debug GPU Overdraw Codelab**
	In this codelab you will learn how to visualize overdraw on your mobile device by color-coding interface elements based on how often they are drawn underneath.
6pm-7pm	**Code Lab/Web: Building data-rich web apps with Lovefield**
	In this codelab, developers will learn how to build a web application that uses Lovefield as its data query and access layer.
08/25/2015	
5pm-6:20pm	**Code Lab/Cloud Platform: Building a gRPC service with Node.js**
	In this codelab, you will learn how to build a Node.js service which exposes an API via gRPC. Then you will write a Node.js command-line client for your gRPC service.
6:25pm-7pm	**Code Lab/Search: Enable Deep Linking to your App**
	In this codelab, you'll learn how to get your Android app indexed by Google Search.
08/27/2015	
5pm-6:20pm	**Code Lab/Cloud Platform: node.js: Build a Web App using Google Cloud Platform**
	In this codelab, you will learn how to integrate Google Cloud Platform services into a Node.js web application to store data, upload images, and authenticate users.
6:20pm-7pm	**Code Lab/Web: Web Animations Transitions and Playback Control**
	In this codelab, you'll learn how to use the Web Animations API to enhance a single-page HTML website with transitions and a scroll effect.
08/28/2015	
5pm-7pm	**Code Lab/Unity: Cardboard Unity Codelab**
	In this codelab, you'll learn how to add voice interactions to your app with the Voice Interaction API. You'll build a voice-powered camera app that responds to the voice command "take a photo" and prompts you for confirmation before taking the photo.

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Agenda of Coaching & Mentoring Session/Hackathons

		08/08/2015
1pm-5pm	**Coaching & Mentoring Session**	
	• **Challenge Time**	
	• **Idea Week**	
		08/15/2015
1pm-2pm	**Coaching & Mentoring Session**	
	• **Presentation of each project (5/10 min by team)**	
	• **Q/A**	
2pm-5pm	**#LeanStartup & #CodeTime**	
		08/19/2015
3pm-7pm	**Coaching & Mentoring Session / Mini Hackathon**	
	Idea - Design - Q/A	
		08/22/2015
9am-12pm	**Coaching & Mentoring Session / Hackathon**	
	• **Presentation of each project (5/10 min by team)**	
	• **Q/A**	
1pm-4pm	**CodeTime**	
4pm-5pm	**Presentation of each project (5/10 min by team)**	
		08/26/2015
2pm-6pm	**Coaching & Mentoring Session**	
	speech - Design - Q/A	
	#PolishWeek	
#SUBMIT		**08/29/2015**
	Coaching & Mentoring Session / Hackathon	
9am-10am	• **Presentation of each project (5/10 min by candidate)**	
	• **Q/A**	
10am-12pm	**Code Time**	
12pm-1pm	**Presentation of each project**	
1:30pm-4pm	**codeTime**	
4pm-5pm	**Presentation of each project**	
5:30pm	**End of GDG DevCamp**	