Intro to Android: Syllabus

January 12, 2020 / 6:00 PM - 7:00PM EST

Important Links

Workshop Hackpack

Pre-workshop checklist, and resources to explore during and after the workshop.

Hack the North 2020++ Event Schedule

Check this out to stay up-to-date on activities, workshops, and other key happenings this weekend.

Motivator

In this introductory workshop on the workings of Android, learn how programming knowledge can be used to create Android applications. Learn the guiding principles behind Android development and how to approach it. By the end you'll know how Android Studio projects are structured and how to create simple applications.

You might not leave knowing how to create the next Uber, but I'll try my best to get you started on the right foot and point you in the right direction.

Prerequisite Knowledge

In order to get the most out of this workshop you should be comfortable with the following concepts:

- Basic Programming knowledge
- **HAVE ANDROID STUDIO INSTALLED AND WORKING**
- Optional: Knowledge of git

Learning Outcomes

This is what you will walk away from the workshop able to do:

1. Explain the various components of the "Hello World!" Android Studio Project
2. Understand the key ideas of working with the Android OS
3. Create a simple app
4. Know where to learn more about Android development

Timeline (1 hour)

Time	Module	Description
5 min.	Who I am & the goal of this workshop	
5 min.	What Android is all about	A high level overview of how Android ticks and now Android projects are structured. The 3 components of any Android project will be explained.
5 min.	Break	
10 min.	How does Android know the app structure?	This module will go over the first of three components in detail. By the end, you should understand how Android gets the project structure of your app.
10 min.	How does Android know the screen layouts?	The second module covers how Android gets the screens and layouts of your app.
10 min.	How does Android know the screen behaviour?	The third and final is telling Android how your screens should behave.
5 min.	Putting it all together and questions	I'll summarize the three components and go over how the Android OS turns your code into an app.
5 min.	Closing remarks	
5 min.	Q&A	