Android Dev, Part 2 of 3: Networking, Web, and Databases

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Meet the expert: Robert McHale has over 17 years of experience developing online systems and consulting in the computer, financial, and non-profit industries. He enjoys simplifying complex features of mobile platforms. He has developed training courses for both Android and iOS and has participated in Connections conferences since April 2000.

Prerequisites: This course assumes you have a basic understanding of how to use Eclipse and write Java code.

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Course description: The Advanced Android Development using Eclipse course will take a deeper look into developing applications for the Android OS. The course will start with Network sockets in general and then move to the Android Server sockets and Multithreaded Network Sockets. From there the course will address the Android web server. From networking the course will then move to accessing the SD memory card and how the Android contacts database works.

Course outline:

Intro to Network Sockets
- Introduction
- Why Network Sockets?
- Sample Network Sockets
- Android Server Sockets
- Demo: Android Network Sockets
- Summary

Intro to Network Sockets 2
- Introduction
- Demo: Android Network Sockets
- Demo: Run the App
- Summary

Network Input Stream
- Introduction
- Demo: Network Input Stream
- Demo: Network I/O
- Summary

Network Input Stream Part 2
- Introduction
- Demo: Network Input Stream
- Demo: Test Device
- Summary

Network Input Stream Part 3
- Introduction
- Demo: Network Input Stream
- Demo: Run the App
- Summary

Multithreaded Sockets
- Introduction
- Why Multithreaded Sockets?
- Android Multithreaded Sockets
- Demo: Multithreaded Sockets
- Demo: Multithreaded Code
- Summary

Multithreaded Sockets Part 2
- Introduction
- Demo: Multithreaded Sockets
- Demo: Run the App
- Summary

Multhithreaded Sockets Part 3
- Introduction
- Demo: Multithreaded Sockets
- Demo: Display Tablet
- Summary

Android Web Server
- Introduction
- Android Web Server
- Demo: Android Web Server
- Summary

Building an Android Web Server
- Introduction
- Demo: Web Server Build Example
- Demo: Run the App
- Summary

Building Android Web Server 2
- Introduction
- Demo: Web Server Build Example
- Demo: Run the App
- Summary

SD Card Folders
- Introduction
- Demo: SD Card Folder Application
- Android SDCard Navigator
- Summary

SD Card Folders Build Example
- Introduction
- Demo: Build SD Card Navigator
- Demo: Snapshot
- Summary

SD Card Folder Build Example 2
- Introduction
- Demo: Build SD Card Navigator 2
- Demo: Run the App
- Summary

Android Contacts Database
- Introduction
- Android Contacts Database
- Demo: Android Contacts App
- Summary

Android Contacts Database 2
- Introduction
- Demo: Contacts Application
- Android Contacts Database Constants
- Demo: Using Database Constants
- Summary

Android Contacts Database 3
- Introduction
- Android Contacts Database
- Demo: ContentResolver.query()
- Summary

Android Contacts Email
- Introduction
- Android Contacts Database
- Demo: Android Contacts Email
- Summary