Assignment 4

Book store content provider

Introduction

The project provides an activity for a book store shopping cart, with sub-activities for adding a book, viewing the details of an individual book, and checking out. The add activity just returns the book information entered, while checkout just asks for shipping and billing information and then clears the shopping cart. Exiting app and restarting shows shopping cart still available

Pre-requisites

- Nexus 5X AVD
- Android 5.1(Lollipop)

Functions

MainActivity
1.Main activity displays books
2.Main activity supports deletion of multiple books (via context action bar)

There are three subactivities of the main activity for viewing the shopping cart:

AddBookActivity
activity to add book, inserts the book into the database

ViewBookActivity
Sub-activity for viewing details of a book

CheckoutActivity
Displays a blank screen, and allows the shopping cart to be
cleared. This is invoked by an action in the main activity.

Content Provider
exiting app and restarting shows shopping cart still available

Chat app

Introduction

As with the first part of the assignment, I replace the use of a SQLite database with a content provider. Define a single content provider with two tables, visible to the app, and distinguished by their URIs that have the same authority but different content paths. One table stores the messages that have been received, while the second table stores information about the peers from whom we have received messages.

Pre-requisites

- Nexus 5X AVD
- Android 5.1(Lollipop)

Get Start

You should follow this strategy to get the client and server to talk to each other:

1. Create separate virtual devices (AVDs) for the client and server. Let's say you call these ChatClient and ChatServer, respectively.

2. In the view for the ChatClient project, lick on the "app" drop-down menu and pick "Edit Configurations": For the Device Target Option, choose Emulator and then pick ChatClient as the device to run the application on: This is to make sure that the client app runs on the ChatClient device.

3. Similarly, make sure that the server app runs on the ChatServer device.

4. Run the server and client chat apps. Assuming that you ran the server first, followed by the client, the corresponding AVDs have administrative port numbers 5554 and 5556, respectively.

5. Type these lines in a shell on the host:

telnet localhost 5554

auth <token>

redir add udp:6666:6666

quit