Database connectivity using SQLite Chapter-4

Using Android Data and Storage APIs

• 1) Working with Preferences

- Creating Preferences
- Reading Preferences
- Creating program of preferences

- Working with Files and Directories
- 1) Creating and Writing Files
- For Example, the following code create and opens a file called "filename.txt".
- We write a single line of text to the file and then close the file.

- import java.io.FileOutputStream;
- **...**
- FileOutputStream fos;
- String strFileContents = "Some text to write to the file.";
- fos = openFileOutput("Filename.txt", MODE_PRIVATE);
- fos.write(strFileContents.getBytes());
- fos.close();

Reading files

- FileInputStream fis = openFileInput(filename);
- StringBuffer sBuffer = new StringBuffer();
- DataInputStream dataIO = new DataInputStream(fis);
- String strLine = null;
- while ((strLine = dataIO.readLine()) != null) {
- sBuffer.append(strLine + "\n");
- }
- datalO.close();
- fis.close();

Working with directories

- File fileDir = getFilesDir();
- String strNewFileName = "myFile.dat";
- String strFileContents = "Some data for our file";
- File newFile = new File(fileDir, strNewFileName);
- newFile.createNewFile();
- FileOutputStream fo =
- new FileOutputStream(newFile.getAbsolutePath());
- fo.write(strFileContents.getBytes());
- fo.close();

2) Managing Data using SQLite

- 1) Creating a SQLite Database
- 2) Creating a Table
- Operation of the second of
- 4) Working with cursor
- 5) Executing simple queries.

6) Deleting Tables

Db.execSQL("DROP TABLE TBLNAME");

7) Closing a SQLite Database

Db.close();

3) Sharing Data Between Applications with Content Providers

 Application can access data within other applications on the Android system through content provider interfaces and expose internal application data to other applications by becoming a content provider.

- Provider
- -Media Store
 - Audio visual data on the phone and external storage.

- -Call Log
- sent and receive calls

- Browser
 - Browser history and bookmarks.
- Contacts
 - > Phone contact database or phone book.

Settings

> System wide device settings and preferences.

UserDictionary

A dictionary of user defined words for use with predictive text input.

For Example read contacts

- Cursor oneContact = managedQuery(People.CONTENT_URI, null, null, null,
- "name desc LIMIT 1");

Log.d(debugTag, "Count: " + oneContact.getCount());

- String nameldx = oneContact.getColumnIndex(Contacts.People.NAME);
- String emailIDIdx = oneContact
- .getColumnIndex(Contacts.People.PRIMARY_EMAIL_ID);
- int phoneIDIdx = oneContact
- .getColumnIndex(Contacts.People.PRIMARY_PHONE_ID);

