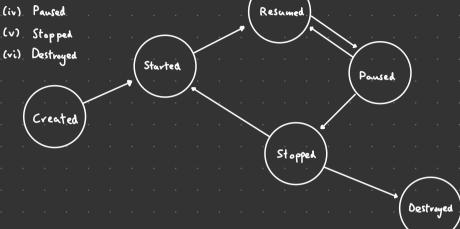


B07 Nov 15 Lec 1 Notes

6 states an activity can have

- (i) Create
- (ii) Started
- (ici) Resumed (Running)

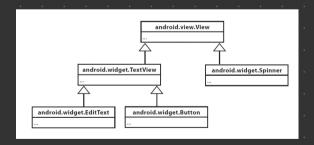
- (vi) Destroyed



Folder Structure

- 4 Manifest file
 - Structure and meta data an application, its components, and of requirements.
 - 4 Stored in the root of its project hierarchy as an XML file.
- 4 Java Files
- 4 Resource files
 - Sub-directories of the applies directory. are maintained in
 - 4 A resource can be accessed in the code using its resource ID.
- 4 Gradle scripts
 - Wsed to automate the build process.

the View class or one components are instances of



View Group

- 4 A special type of view that contain other views
- A layout is a type of view group.



Intents

- 4 An intent is an object that can be used to bind activities together at runtime.
 - . 4 An activity can start another one by sending an intent to Android Android will start the second activity and pass it the intent.
- 4 Data can be passed between activities using intent extras.

Android - Storing Data

Data Storage Options

- 4 File system
- 4 Shared Preferences
- 4 Databases
 - 4 SQLite
 - 4 Firebase

File System

- Android's file system consists of six main partitions
 - 4 /boot
 - 4 / System
 - 4 / recovery
 - 6 / data
 - 4 /cache
 - La /misc
- Reading / writing data to a file on internal storage can be done using
 - 4 open File Input ()
 - 4 open File Output ()

Shared Preferences

- Suitable for simple data that could be stored as Key I value pairs
- 4 A Shared preferences object refers to a file containing Key/value pairs and provides methods to read and write them.
- 6 Creating / accessing Shared , preference , can be done using :
 - 4 get Preferences ()
 - 4 get Shared Preterences ()

SQLite

- 4 Relational database
- 4 Serverless
- 4 Zero configuration
- 4 File-based
- 4 Widely used

Firebase Realtime Database

- 4 Cloud-hosted
- + Employs data synchronization
- → Data is stored as JSON
- The Fire Base SDK provides many classes and methods to stove and sync data, e.g.
 - Database Reference, Data snapshot, Value Event Listener.