Cheatography

Android - Interview Cheat Sheet

by a.matamoros via cheatography.com/122009/cs/22528/

General Questions

This interview will have different sections. In this first part, I would like to talk about your experience and background.

Would you like to go ahead and tell me about it?

Which is the most challenging project that you have faced so far?

Did you run into any obstacles with this project and how did you handle the issue?

About the teams you have been involved in
- Were they distributed in other countries?

About the Methodology - Was it agile?

Did you usually follow all the ceremonies?

Have you ever lead a team?

Android Core

Tell all the Android application components.

> Activities, Services, Broadcast Receiver, and Content Provider.

What is Context? How is it used?

> - Interface to global information about an application environment.
> - It allows access to application-specific resources and classes, as well as up-calls for application-level operations such as launching activities, broadcasting and receiving intents, etc.

How many contexts can you mention?

> Application & Activity

Android Core (cont)

What is the AndroidManifest.xml

> - All App components are declared in this file.
> - User permissions that the app requires.
> - Declares hardware and software features used or required by the app
> - Declares API libraries the app needs to be linked (Maps)

What is Application class?

> - Base class that contains all other components.
> - It is instantiated before any other class when the process for your application/-package is created.

Activities

What is an Activity?

> An activity is the entry point for interacting with the user

Can you explain the life cycle of the Activity?

What happens when the device is rotated?

How do you avoid this information to be lost?

> **onSavedInstanceState()** - This method is used to store data before pausing the activity.
> **onRestoreInstanceState()** - This method is used to recover the saved state of an activity when the activity is recreated after destruction.

What if I want to send info from one activity to another?

> Intents (primitive types)

But what if I want to send an Object?

> **Parcelable** or **Serializable**

Can an Activity be opened from another App?

> Yes, you need to add an `<in ten t-f ilt er>` element in your manifest file for the corresponding `<ac tiv ity>` element.

Services

What is a Service?

> Long-running operations in the background

Foreground Service?

> Performs some operation that is noticeable to the user

Background Service?

> Performs an operation that isn't directly noticed by the user.

Bound Service?

> - A bound service offers a client-server interface that allows components to interact with the service.
> - bindService()
> - Runs only as long as another application component is bound to it

Service vs IntentService

Service:

> Block UI, Main Thread, Short tasks, Need to stop it

IntentService:

> Async, Need an intent, Worker thread, Not need to stop it

What is a JobScheduler?

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