Exam questions

Mobile app development (Spring 2021)

Exam questions:

1. Activities: Describe what activities are, their life cycle, and why they are important. Show some examples of code illustrating key aspects of Android activities.

2. Concurrency: Describe some of the concepts Android provides for handling concurrency (listeners, threads, callbacks, etc.). Show some examples of code illustrating the use of concurrency in Android.

3. Persistency: Describe the concepts Android provides to make data persistent. Show some examples of code illustrating how to make data persistent in an Android app**.**

4. User interface layout: Describe some of the concepts for defining the layout of the user interface of an Android app. Show some examples of code illustrating Androids layout elements.

5. Intents: Describe what an intent is and some of the ways in which it may be used in an Android app. Show some examples of code illustrating the use of intents in an Android app.

6. Fragments: Describe what a fragment is and how it can be used. Show some examples of code illustrating the use of fragments in an Android app.

7. Scrollable views: Describe some of the concepts Android provides for making a user interface with scrollable views. Show some examples of code illustrating how to make a scrollable view in an Android app.

8. Kotlin: Describe some of the concepts in Kotlin that distinguishes it from Java (for developing Android apps). Show some examples of code illustrating Kotlin code.

9. Networking: Describe how one can do Http communication (with a website/server) in an Android app. Show some examples of code illustrating Http communication in an Android app.

10. Navigation: Describe some of the concepts available in Android for making an app with multiple different screens and for navigating between them. Show some examples of code illustrating the navigation concepts.