

CS473 Course Updated Contents

Updated versions of Android OS and API level, some changes are addressed in the Lectures materials. Videos recorded in the past. Always check the PPT contents for the updated material. I will keep update the same file for any changes.

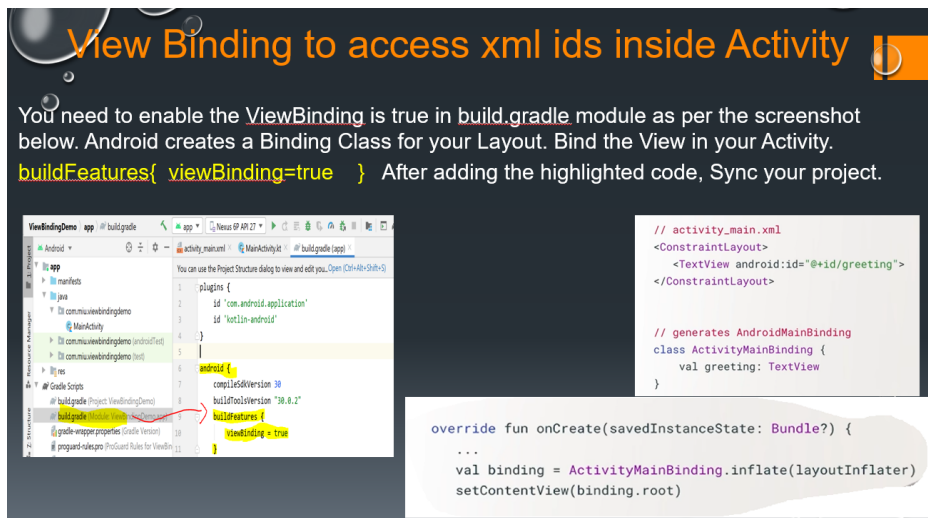
Lesson-1 -> Always refer the latest version of Android and API Level from the below link,

<https://source.android.com/setup/build-numbers>

Lesson-3 → Kotlin Syntactic get deprecated

(import kotlinx.android.synthetic.main.activity_main.*) - Not works.

You have to use View Binding to access XML ids into Kotlin file.



View Binding to access xml ids inside Activity

You need to enable the `ViewBinding` is true in `build.gradle` module as per the screenshot below. Android creates a Binding Class for your Layout. Bind the View in your Activity.

`buildFeatures{ viewBinding=true }` After adding the highlighted code, Sync your project.

```
plugins {
    id 'com.android.application'
    id 'kotlin-android'
}

android {
    compileSdkVersion 30
    buildToolsVersion "30.0.2"
    buildFeatures {
        viewBinding = true
    }
}
```

```
// activity_main.xml
<ConstraintLayout>
    <TextView android:id="@+id/greeting">
    </ConstraintLayout>

// generates AndroidMainBinding
class ActivityMainBinding {
    val greeting: TextView
}
```

```
override fun onCreate(savedInstanceState: Bundle?) {
    ...
    val binding = ActivityMainBinding.inflate(layoutInflater)
    setContentView(binding.root)
}
```

Lesson-6 -> Recycler View, not necessary to include the dependency on Gradle if you are latest versions of Android Studio.

Lesson-7 -> Tab Layout and Material Design, not necessary to include the dependency on Gradle if you are latest versions of Android Studio. See the updated lecture slides.

Refer the updated Tab Layout Implementation:

<https://sakai.cs.miu.edu/access/content/group/fce20289-503b-4274-b1c2-af3691759700/Lectures/Lesson-7/Lesson-7-Day-2-Tab%20Layout%20Step%20by%20Step%20Implementation-Ver2.pdf>

Lesson-8-> Creating own HTML pages topic is removed now. Kindly skip those Video part. Refer the updated PPT from the Sakai Lecture resources.

Shared Preferences got deprecated. The new concept Preferences Data Store introduced.

Refer the PPT. For the exam go with the old lectures and the Demos.

Lesson-9-> Requesting Run time permission are updated with the latest approach. Refer the updated slides and demo codes from the Sakai Resources.

Watch the Updated Lecture Video of whole Lesson-9 from the link below

Video -1 : [CS473-Lesson-9-01.mp4](#)

Video-2 : [CS473-Lesson-9-02.mp4](#)

Lesson-10 -> To use Android Jetpack Components, not necessary to include the dependency on Gradle if you are using the latest versions of Android Studio. Watch the below videos for the respective topics.

Simplified Examples for ViewModel & LiveData. Revised API for Navigation Components-October 2022

1. Video-1 – ViewModel & LiveData – Updated Video
[Lesson-10-01.mp4](#)
2. Video-2 – Navigation Component Updated API – October 2022
[Lesson-10-02.mp4](#)

Refer to Demo Programs from the given link for Lesson 6 – Lesson 11 with View Binding features.

https://mum0-my.sharepoint.com/:f:/g/personal/rmohanraj_miu_edu/E1lGeHZpiMZOpncAPmlkWrCBZQ-yqto19bc2ivfEUMnxeA?e=jIqZIZ