CS-360-J7037 Mobile Architect & Programming

Module 3-2 Assignment: Android Studio Introduction
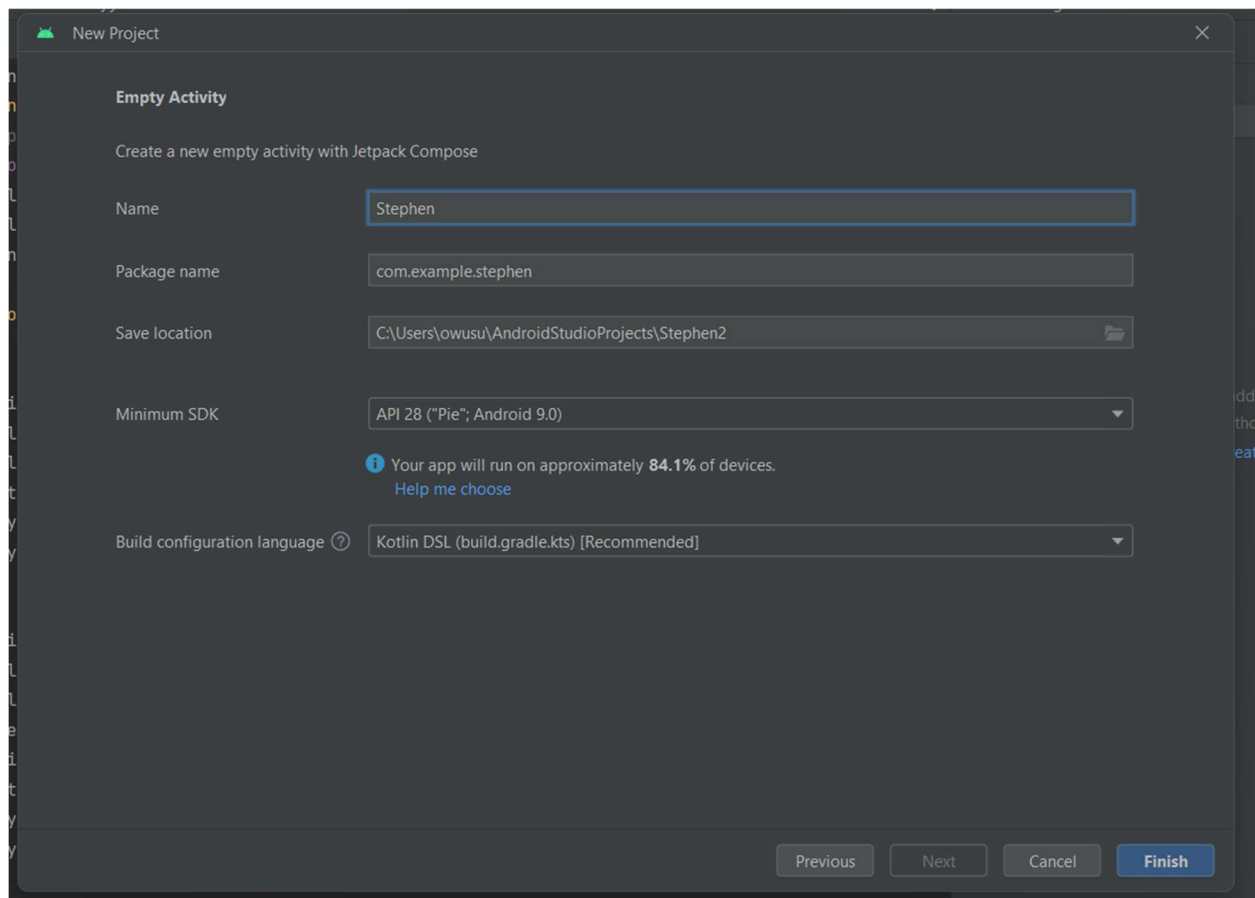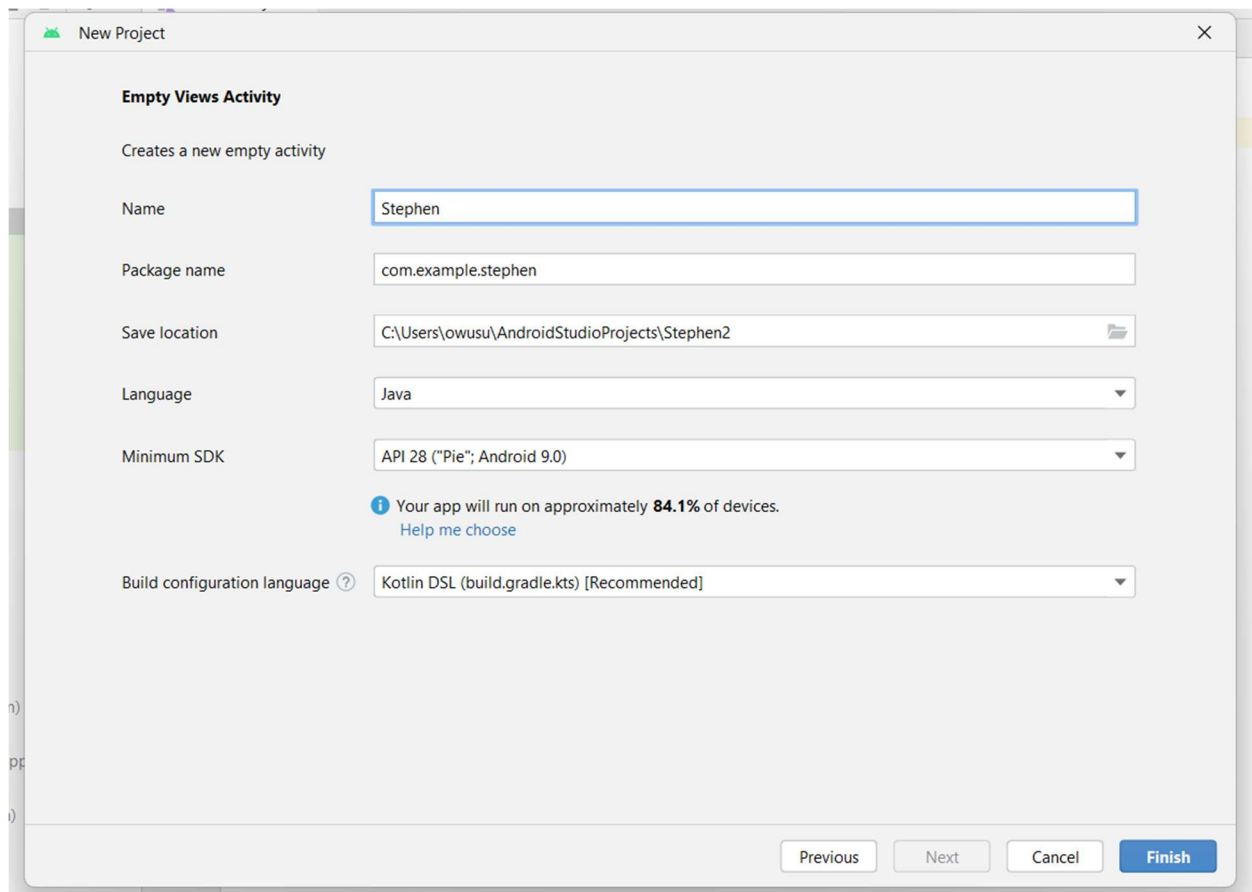
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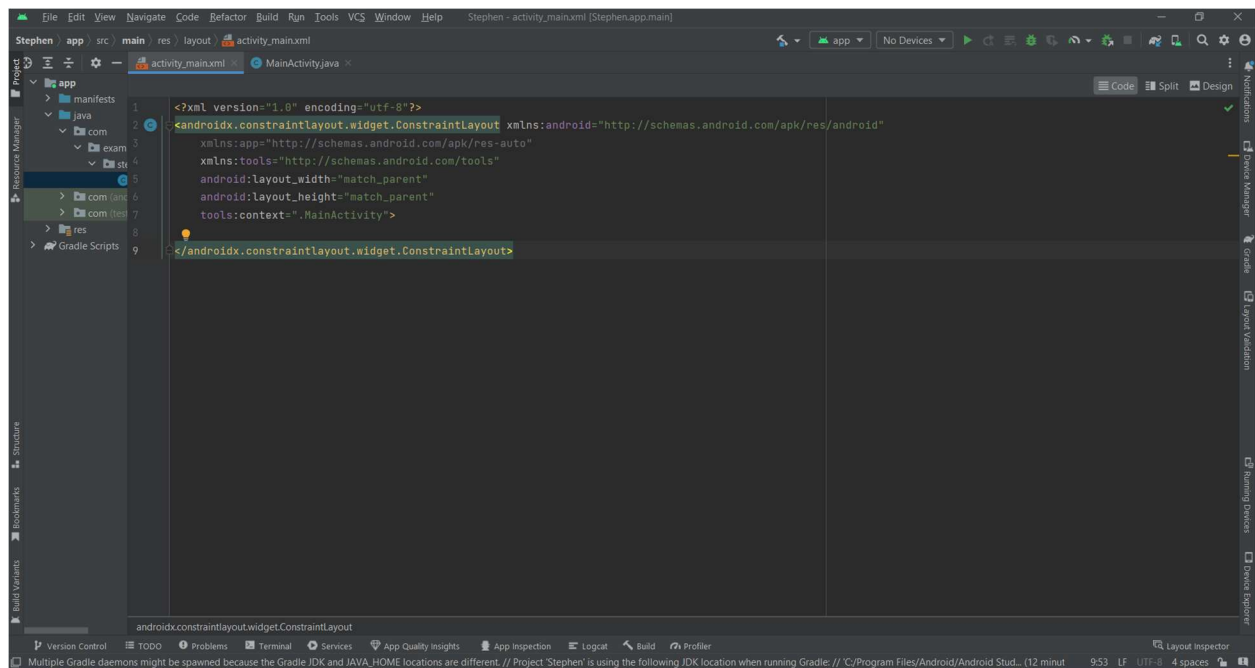
September 16, 2023

1. Create a new Android Studio project with an empty activity. Complete the following in your set-up: Name the project and be sure to include your name in the title. Make sure the selected language is Java.

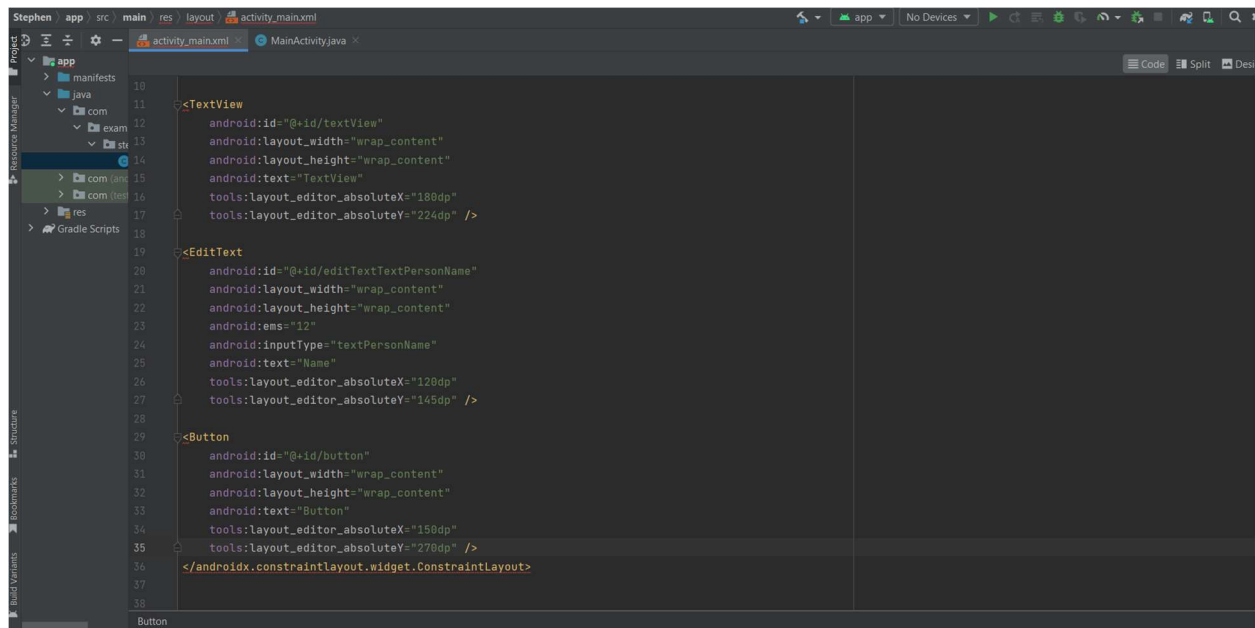Select API 28: Android Pie as the target SDK.

- Once the new project loads, edit the existing activity_main.xml file.
- Delete the existing TextView object.

- Create a new layout of your choosing. The layout must include a button, a TextView, and a plain text (also known as an EditText).

Identify the Android Studio elements using relevant names. To accomplish this task, complete the following:

- Name the button's text as "Say Hello".

```
<Button
    android:id="@+id/buttonSayHello"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="180dp"
    android:text="@string/say_hello" />
```

- Remove all text from the TextView.

```
<EditText
    android:id="@+id/textGreeting"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="90dp"
    android:layout_centrerHorizontal="true" />
```

- Label the ID of the button as "buttonSayHello".

```
<Button
    android:id="@+id/buttonSayHello"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="180dp"
    android:text="@string/say_hello" />
```

- Label the Plain Text as "nameText".

```
<EditText
    android:id="@+id/nameText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centrerHorizontal="true"
    android:layout_marginTop="120dp"
    android:autofillHints=""
    android:hint="@string/edit_text"
    android:inputType="ITEM_LISTS"
    android:minHeight="50dp"
    android:textColorHint="#858585" />
```

- Label the TextView as "textGreeting".

```
<EditText
    android:id="@+id/textGreeting"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="90dp"
    android:layout_centrerHorizontal="true" />
```

- **Discuss any challenges you experienced with Android Studio. Now that you have had time to explore Android Studio, use this space to talk about your initial experience and ask any questions that you have. Explain any challenges you are experiencing with accessing or using Android Studio so that you will be prepared for later work in this course.**

As a first-time user, I had some challenges initially when I tried to open a new project, Android Studio. I had to uninstall the Android Studio and then install it again. But later, I discovered that the issue wasn't about the installation but the option of the project template I selected when I opened the studio. There are "empty activity" and "empty views activity" templates and others. I first chose the "empty activity" template, but I wasn't getting the interface I was expecting. I could see the interface I needed when I selected the other option. It might look simple, but I struggled during this step.

Installing the Android studio was simple and easy because I followed the tutorial in the resource section. Another challenge I have experience with is correcting errors. When I edited the

code, I had some errors while running it. I had some challenges trying to find the sources of the errors. I spent so much time correcting those errors.

I had some good experiences as well. For example, after I opened the project, the background theme was white, but I changed it to dark by following very simple steps to complete it. It was simple to include buttons and text options in the design view, and it was simple to update some of the text and button titles in the code view. For now, I do not have many questions to ask. I am still navigating through the IDE; if I encounter any challenges, I will bring them out for assistance.