

Experiment 1.3

Student Name: Mohd Suhail Saifi UID: 21BCS3864

Branch: BE-CSE **Section/Group:** NTPP-CC-601-A **Semester:** 6th **Date of Performance:** 01-02-2024

Subject Name: Mobile Application Development

Subject Code: 21CSP-355

1. Aim:

Create Application by Using Widgets.

2. Objective:

To understand the concept of widgets and to implement the Widgets in Android Studio.

3. Procedure:

Step 1: Create a New Project

To create a new project in Android Studio please refer to How to Create/Start a New Project in Android Studio. We are implementing it for both Java and Kotlin languages.

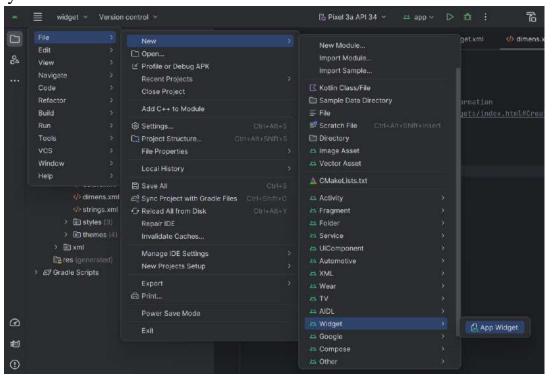
Step 2: Add the App Widget to the Project

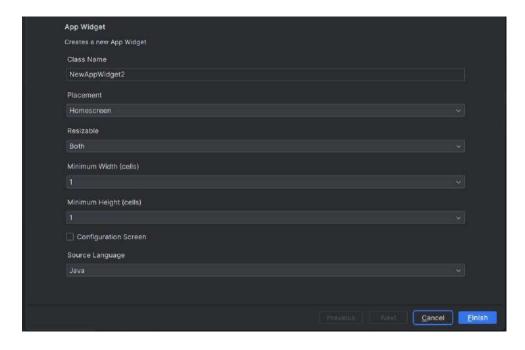
Right-Click on the app, move the cursor to new, find the "Widget" option at the end, select it.

Step 3: Install and Run the Code

Install and run the code on Android Virtual Device (AVD) or a personal device. Open the widget section of the phone, lookup for a widget with the Application name, select it, bring it to the home screen. Try changing the dimensions and we are done! During this selecting and deploying process, a few extra files are generated and minor changes are made to existing files as well. No programming

is required for generating a basic widget and is only required if an application is to be embedded inside the widget, as discussed in the later parts of the article. Let us now explain the newly generated files the changes make to the existing ones, one by one.





Step 4: Write code in file

Make changes in newappwidget.java, new_app_widget.xml, dimens.xml and new app widget info.xml.

```
NewAppWidget.java
                                  new_app_widget.xml ×
                                                                          MainActivity.java
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="#090"
android:padding="8dp">
  android:id="@+id/appwidget_text"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content'
  android:layout_centerHorizontal="true"
   android:layout_centerVertical="true"
    android:layout_margin="8dp"
    android:background="#896"
    android:contentDescription="EXAMPLE"
    android:text="EXAMPLE"
    android:textStyle="bold|italic" />
```

4. Output:

