

UNIVERSITI MALAYSIA TERENGGANU

Lab 4 - https://github.com/khairuladha/Lab_4_CSM3505.git

COURSE : PENGATURCARAAN MUDAH ALIH NATIF

COURSE CODE : CSM3505

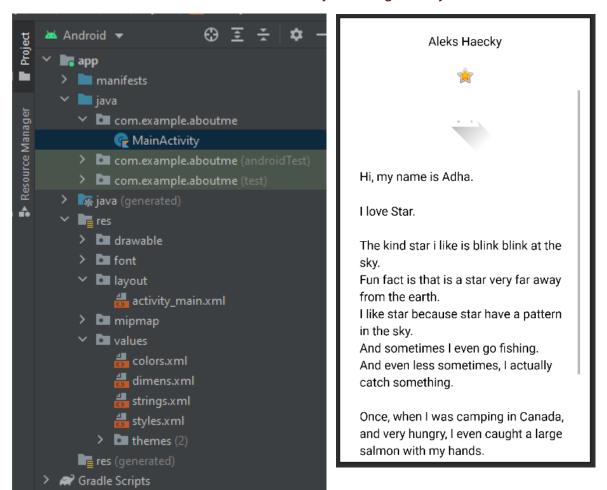
NAME : KHAIRULADHA BIN MISNAN

MATRIC NO. : S56878

GROUP : k1

LECTURER : DR. RABIEI B MAMAT

Task 1: Android Kotlin Fundamentals: LinearLayout using the Layout Editor

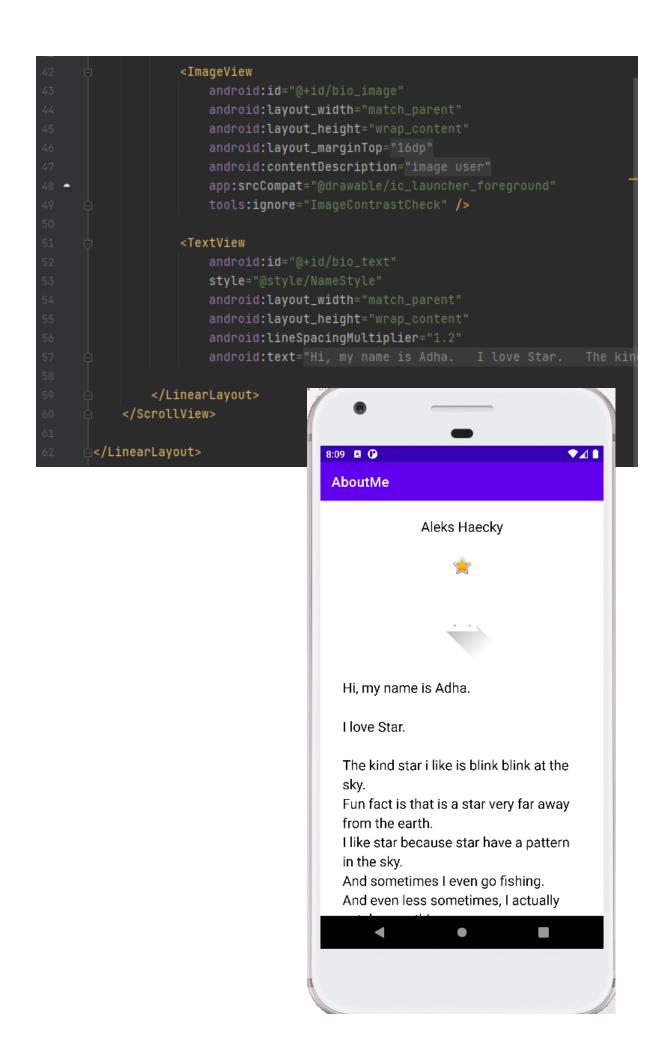


```
👼 colors.xml 🗡 👼 dimens.xml 🗡 👼 strings.xml 🗵
                                         机 styles.xml
      <resources>
                                                                A1 x2 ^ v
          <string name="app_name">AboutMe</string>
          <string name="name">Aleks Haecky</string>
          <string name="yellow_star">yellow star</string>
          <string name="bio"> Hi, my name is Adha.
      \n\nI love Star.
      \n\nThe kind star i like is blink blink at the sky.
      \≝un fact is that is a star very far away from the earth.
      \n\I like star because star have a pattern in the sky.
      \nAnd sometimes I even go fishing.
      \nAnd even less sometimes, I actually catch something.
      \n\nOnce, when I was camping in Canada, and very hungry, I even caugh
      \n\nI\'ll be happy to teach you how to make your own aquarium.
      \nYou should ask someone else about fishing, though.\n\n</string>
          <string name="bio_image">image user</string>
      </resources>
```

```
🚚 styles.xml
🚜 colors.xml
            🚜 dimens.xml 🗦
      <?xml version="1.0" encoding="utf-8"?>
      <resources>
3
          <color name="purple_200">#FFBB86FC</color>
          <color name="purple_500">#FF6200EE</color>
          <color name="purple_700">#FF3700B3</color>
          <color name="teal_200">#FF03DAC5</color>
          <color name="teal_700">#FF018786</color>
          <color name="black">#FF000000</color>
          <color name="white">#FFFFFFF</color>
 </resources>
```

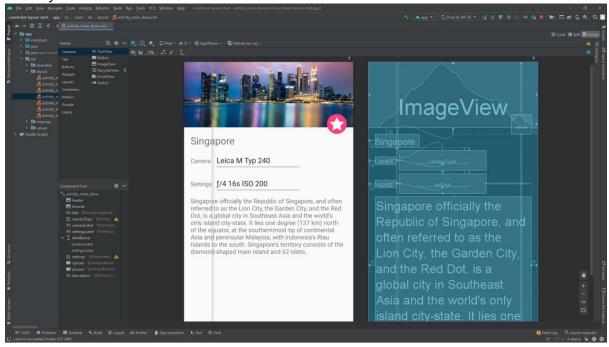
```
colors.xml × dimens.xml × distrings.xml × dist
```

```
🚜 activity_main.xml
                                                                🗏 Code 🔢 Split 🔼 Desigr
      <?xml version="1.0" encoding="utf-8"?>
      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
          xmlns:app="http://schemas.android.com/apk/res-auto"
          xmlns:tools="http://schemas.android.com/tools"
          android:layout_width="match_parent"
          android:layout_height="match_parent"
          android:orientation="vertical"
          android:paddingStart="16dp"
          android:paddingEnd="16dp"
          tools:context=".MainActivity">
          <TextView
              android:id="@+id/name_text"
              style="@style/NameStyle"
              android:layout_width="match_parent"
              android:layout_height="46dp"
              android:text="Aleks Haecky"
              android:textAlignment="center" />
          <ImageView
              android:id="@+id/star_image"
              android:layout_width="match_parent"
              android:layout_height="wrap_content"
              android:layout_marginTop="16dp"
              android:contentDescription="yellow star"
              app:srcCompat="@android:drawable/btn_star_big_on"
              tools:ignore="ImageContrastCheck" />
          <ScrollView
              android:id="@+id/bio_scroll"
              android:layout_width="match_parent"
              android:layout_height="wrap_content">
              <LinearLayout
                   android:layout_width="match_parent"
                   android:orientation="vertical"
                   android:paddingStart="16dp"
                   android:paddingEnd="16dp"
                   android:layout_height="wrap_content">
```

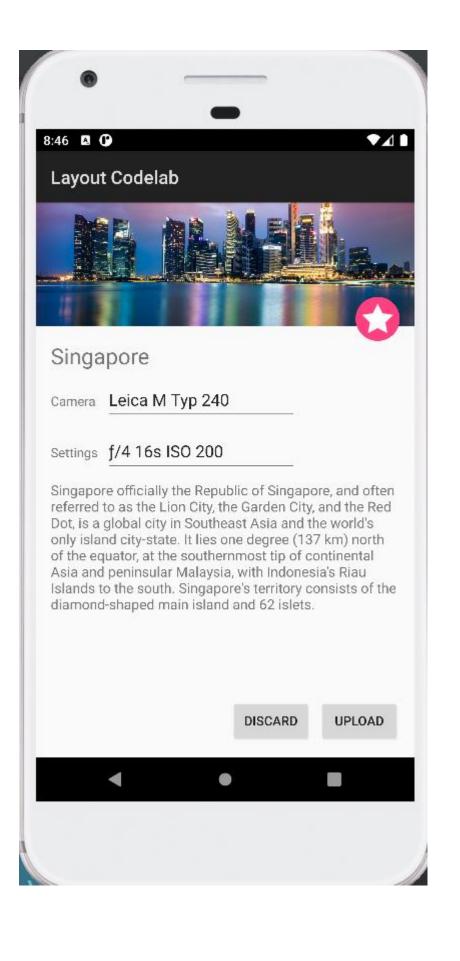


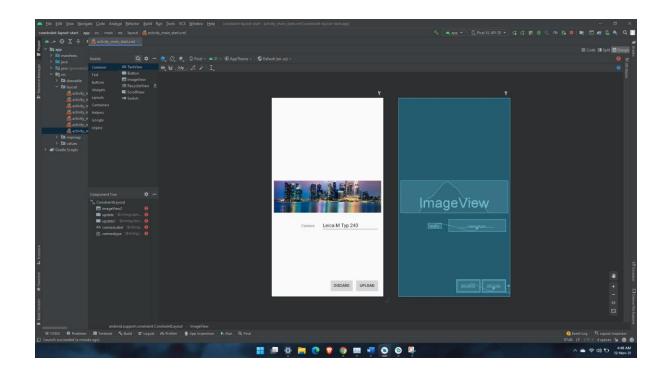
Task 2: <u>Use ConstraintLayout to design your Android views</u>

1. The Layout Editor

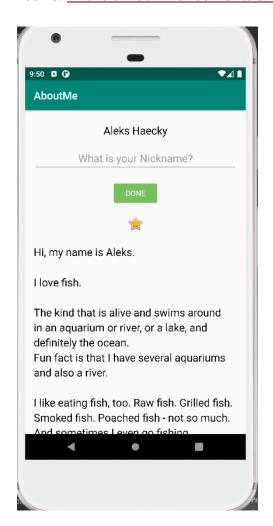


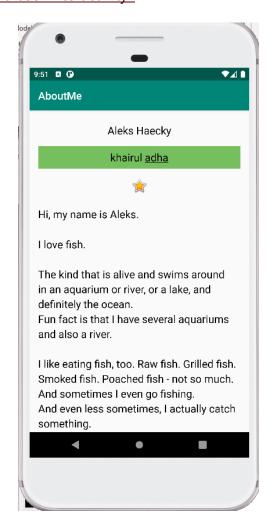
```
<EditText
   android:layout_width="0dp"
   android:layout_height="wrap_content"
   android:minHeight="48dp"
   android:inputType="textPersonName"
   android:text="@string/camera_value"
   android:ems="10"
   app:layout_editor_absoluteX="73dp"
   app:layout_editor_absoluteY="176dp"
   android:id="@+id/cameraType"
   app:layout_constraintLeft_creator="1"
   app:layout_constraintTop_creator="1"
   app:layout_constraintRight_creator="1"
   app:layout_constraintLeft_toLeftOf="@+id/settings"
   tools:layout_constraintLeft_creator="1"
   app:layout_constraintTop_toBottomOf="@+id/title"
   android:layout_marginTop="8dp"
   tools:layout_constraintTop_creator="0"
   app:layout_constraintRight_toRightOf="@+id/settings"
   tools:layout_constraintRight_creator="1"
   app:layout_constraintStart_toEndOf="@+id/labelBarrier"
   android:layout_marginStart="8dp" />
```



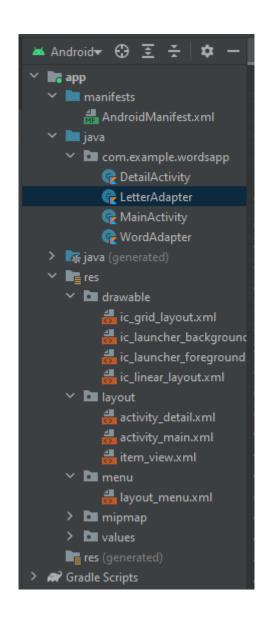


Task 3: Android Kotlin Fundamentals: Add user interactivityz





Task 4: Activities and Intents | Android Developers



```
@ LetterAdapter.kt 	imes @ DetailActivity.kt 	imes @ WordAdapter.kt 	imes @ MainActivity.kt 	imes # layout_menu.xml 	imes 1 Copyright (C) 2020 The Android Open Source Project .../
             override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): LetterViewHolder {
                   return LetterViewHolder(layout)
                   override fun onInitializeAccessibilityNodeInfo(
                         val customClick =
```

```
🥷 LetterAdapter.kt 🗡 🍖 DetailActivity.kt 🗡 🍖 WordAdapter.kt 🗡 🥀 MainActivity.kt 🗡
                                                                     🚜 layout_menu.xml 🗆
      package com.example.wordsapp
           override fun onCreate(savedInstanceState: Bundle?) {
               val binding = ActivityDetailBinding.inflate(layoutInflater)
               val letterId = intent?.extras?.getString(LETTER).toString()
               val recyclerView = binding.recyclerView
               recyclerView.adapter = WordAdapter(letterId, context: this)
               recyclerView.addItemDecoration(
                                                                           1 Project update recommended
```

```
      RetterAdapter.kt \times
      <t
                                                   package com.example.wordsapp
                                                                                                                         .sorted()
                                                                         class WordViewHolder(val view: View) : RecyclerView.ViewHolder(view) {
    val button = view.findViewById<Button>(R.id.button_item)
                                                                         override fun getItemCount(): Int = filteredWords.size
```

```
🕝 LetterAdapter.kt 🗡
                                                                    🚜 layout_menu.xml
       package com.example.wordsapp
       class MainActivity : AppCompatActivity() {
           private var isLinearLayoutManager = true
           override fun onCreate(savedInstanceState: Bundle?) {
                super.onCreate(savedInstanceState)
               val binding = ActivityMainBinding.inflate(layoutInflater)
               recyclerView = binding.recyclerView
               recyclerView.layoutManager = LinearLayoutManager( context: this)
           private fun chooseLayout() {
               if (isLinearLayoutManager) {
                    recyclerView.layoutManager = GridLayoutManager( context: this, spanCount: 4)

    Project update recommended

                    else -> super.onOptionsItemSelected(item)
```

