UNIVERSITI MALAYSIA TERENGGANU

Lab 3 - https://github.com/khairuladha/Lab3NatifP1.git

COURSE	:	**PENGATURCARAAN MUDAH ALIH NATIF**
COURSE CODE	:	**CSM3505**

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GROUP	:	**k1**
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Android Trivia-Starter

1. main activity

```
        // Use Data Binding to get reference to the views
        binding = DataBindingUtil.setContentView(this, R.layout.activity_main)

        binding.dessertButton.setOnClickListener {
            onDessertClicked()
        }

        // Set the TextViews to the right values
        binding.revenue = revenue
        binding.amountSold = dessertsSold

        // Make sure the correct dessert is showing
        binding.dessertButton.setImageResource(currentDessert.imageId)
    }

    override fun onStart() {
        super.onStart()

        Timber.i("onStart Called")
    }

    override fun onResume() {
        super.onResume()
        Timber.i("onResume Called")
    }

    override fun onPause() {
        super.onPause()
        Timber.i("onPause Called")
    }

    override fun onStop() {
        super.onStop()
        Timber.i("onStop Called")
    }

    override fun onDestroy() {
        super.onDestroy()
        Timber.i("onDestroy Called")
    }

    override fun onRestart() {
        super.onRestart()
        Timber.i("onRestart Called")
    }

    /**
     * Updates the score when the dessert is clicked. Possibly shows a new dessert.
     */
    private fun onDessertClicked() {
```

```
    /**
     * Updates the score when the dessert is clicked. Possibly shows a new dessert.
     */
    private fun onDessertClicked() {

        // Update the score
        revenue += currentDessert.price
        dessertsSold++

        binding.revenue = revenue
        binding.amountSold = dessertsSold

        // Show the next dessert
        showCurrentDessert()
    }

    /**
     * Determine which dessert to show.
     */
    private fun showCurrentDessert() {
        var newDessert = allDesserts[0]
        for (dessert in allDesserts) {
            if (dessertsSold >= dessert.startProductionAmount) {
                newDessert = dessert
            }
            // The list of desserts is sorted by startProductionAmount. As you sell
more desserts,
            // you'll start producing more expensive desserts as determined by
startProductionAmount
            // We know to break as soon as we see a dessert who's
"startProductionAmount" is greater
            // than the amount sold.
            else break
        }

        // If the new dessert is actually different than the current dessert, update
the image
        if (newDessert != currentDessert) {
            currentDessert = newDessert
            binding.dessertButton.setImageResource(newDessert.imageId)
        }
    }

    /**
     * Menu methods
     */
    private fun onShare() {
        val shareIntent = ShareCompat.IntentBuilder.from(this)
                .setText(getString(R.string.share_text, dessertsSold, revenue))
                .setType("text/plain")
```

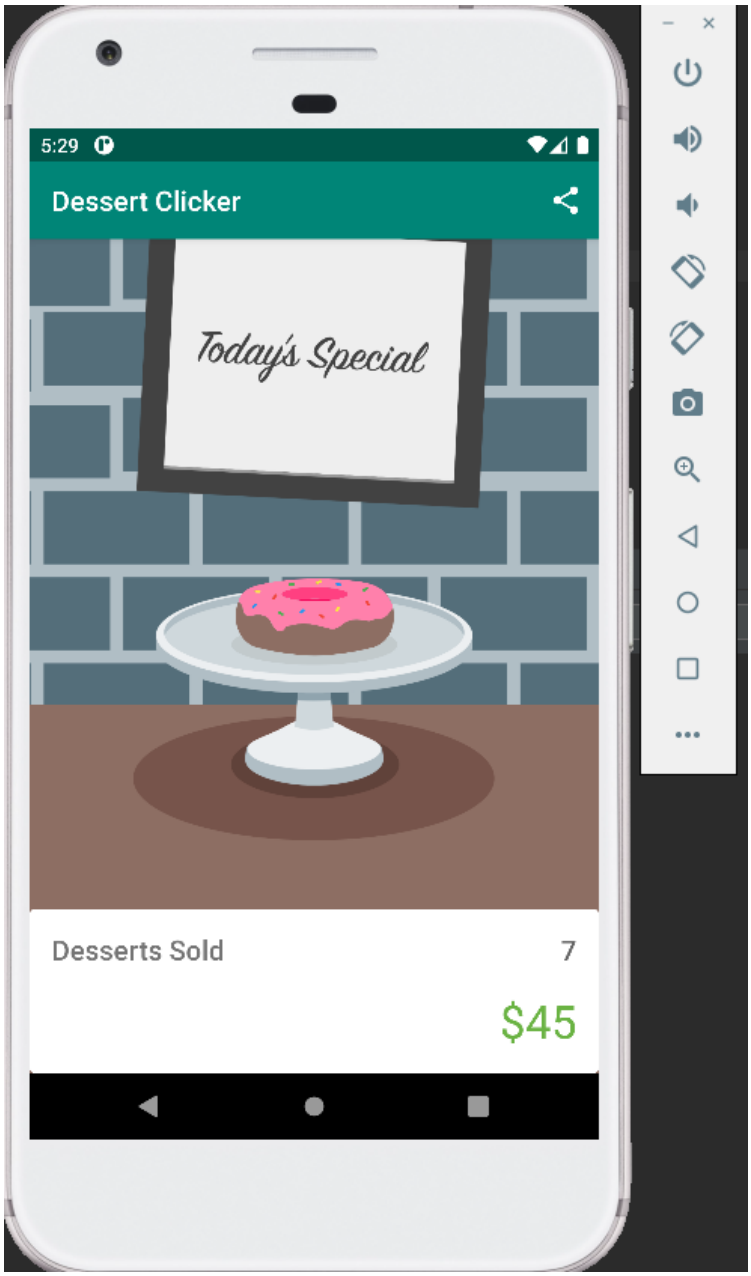
```
                .setType("text/plain")
                .intent
        try {
            startActivity(shareIntent)
        } catch (ex: ActivityNotFoundException) {
            Toast.makeText(this, getString(R.string.sharing_not_available),
                    Toast.LENGTH_LONG).show()
        }
    }

    override fun onCreateOptionsMenu(menu: Menu): Boolean {
        menuInflater.inflate(R.menu.main_menu, menu)
        return super.onCreateOptionsMenu(menu)
    }

    override fun onOptionsItemSelected(item: MenuItem): Boolean {
        when (item.itemId) {
            R.id.shareMenuButton -> onShare()
        }
        return super.onOptionsItemSelected(item)
    }
}
```

2. manifest file

```
<?xml version="1.0" encoding="utf-8"?><!--
  ~ Copyright 2019, The Android Open Source Project
  ~
  ~ Licensed under the Apache License, Version 2.0 (the "License");
  ~ you may not use this file except in compliance with the License.
  ~ You may obtain a copy of the License at
  ~
  ~      http://www.apache.org/licenses/LICENSE-2.0
  ~
  ~ Unless required by applicable law or agreed to in writing, software
  ~ distributed under the License is distributed on an "AS IS" BASIS,
  ~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  ~ See the License for the specific language governing permissions and
  ~ limitations under the License.
  -->

<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.android.dessertclicker">

    <application
        android:name=".ClickerApplication"
        android:allowBackup="true"
        android:icon="@mipmap/ic_dessert_clicker"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_dessert_clicker_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name="com.example.android.dessertclicker.MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

3. layout

```
Emulator Pixel_XL_API_30 Andro   com.example.android.dessertclicke   Verbose   MainActivity
2021-11-05 01:25:11.996 8164-8164/com.example.android.dessertclicker I/MainActivity: onCreate Called
2021-11-05 01:25:12.361 8164-8164/com.example.android.dessertclicker I/MainActivity: onStart Called
2021-11-05 01:25:12.363 8164-8164/com.example.android.dessertclicker I/MainActivity: onResume Called
2021-11-05 01:28:35.540 8164-8164/com.example.android.dessertclicker I/MainActivity: onPause Called
2021-11-05 01:28:38.939 8164-8164/com.example.android.dessertclicker I/MainActivity: onResume Called
2021-11-05 01:28:45.729 8164-8164/com.example.android.dessertclicker I/MainActivity: onPause Called
2021-11-05 01:28:46.564 8164-8164/com.example.android.dessertclicker I/MainActivity: onStop Called
2021-11-05 01:28:46.572 8164-8164/com.example.android.dessertclicker I/MainActivity: onDestroy Called
```



Android Trivia

1. main activity

```
/*
 * Copyright 2018, The Android Open Source Project
 *
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 * you may not use this file except in compliance with the License.
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 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package com.example.android.navigation

import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import androidx.databinding.DataBindingUtil
import androidx.drawerlayout.widget.DrawerLayout
import androidx.navigation.findNavController
import androidx.navigation.ui.NavigationUI
import com.example.android.navigation.databinding.ActivityMainBinding

class MainActivity : AppCompatActivity() {
    private lateinit var drawerLayout: DrawerLayout
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        @Suppress("UNUSED_VARIABLE")
        val binding = DataBindingUtil.setContentView<ActivityMainBinding>(this,
R.layout.activity_main)

        drawerLayout = binding.drawerLayout

        val navController = this.findNavController(R.id.myNavHostFragment)

        NavigationUI.setupActionBarWithNavController(this,navController, drawerLayout)

        NavigationUI.setupWithNavController(binding.navView, navController)

    }

    override fun onSupportNavigateUp(): Boolean {
        val navController = this.findNavController(R.id.myNavHostFragment)
        return NavigationUI.navigateUp(navController, drawerLayout)
    }

}
```

2. manifest file

```
<?xml version="1.0" encoding="utf-8"?>
<!--
  ~ Copyright 2018, The Android Open Source Project
  ~
  ~ Licensed under the Apache License, Version 2.0 (the "License");
  ~ you may not use this file except in compliance with the License.
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  ~
  ~     http://www.apache.org/licenses/LICENSE-2.0
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  ~ Unless required by applicable law or agreed to in writing, software
  ~ distributed under the License is distributed on an "AS IS" BASIS,
  ~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  ~ See the License for the specific language governing permissions and
  ~ limitations under the License.
  -->

<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.android.navigation">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity
            android:name=".MainActivity"

android:configChanges="orientation|screenSize|smallestScreenSize|screenLayout">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```
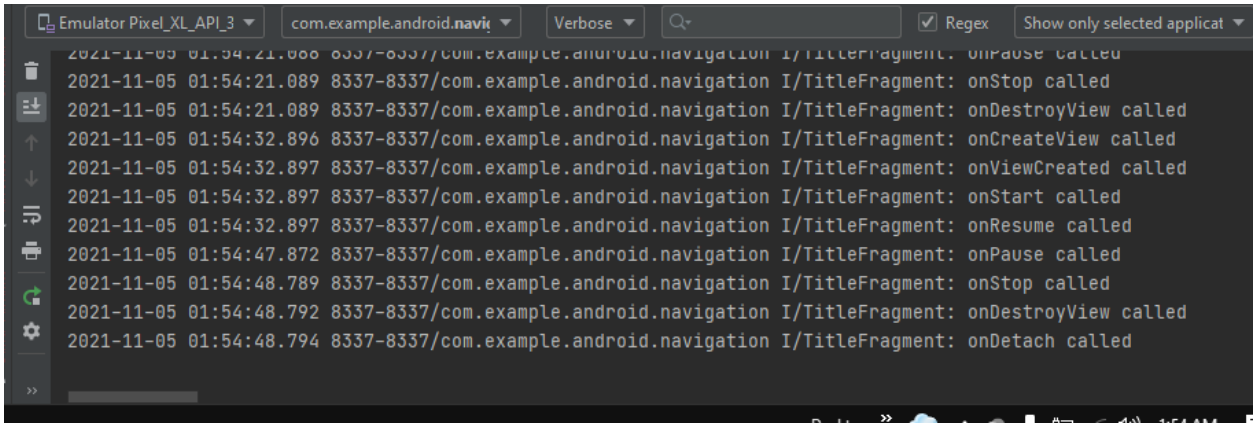
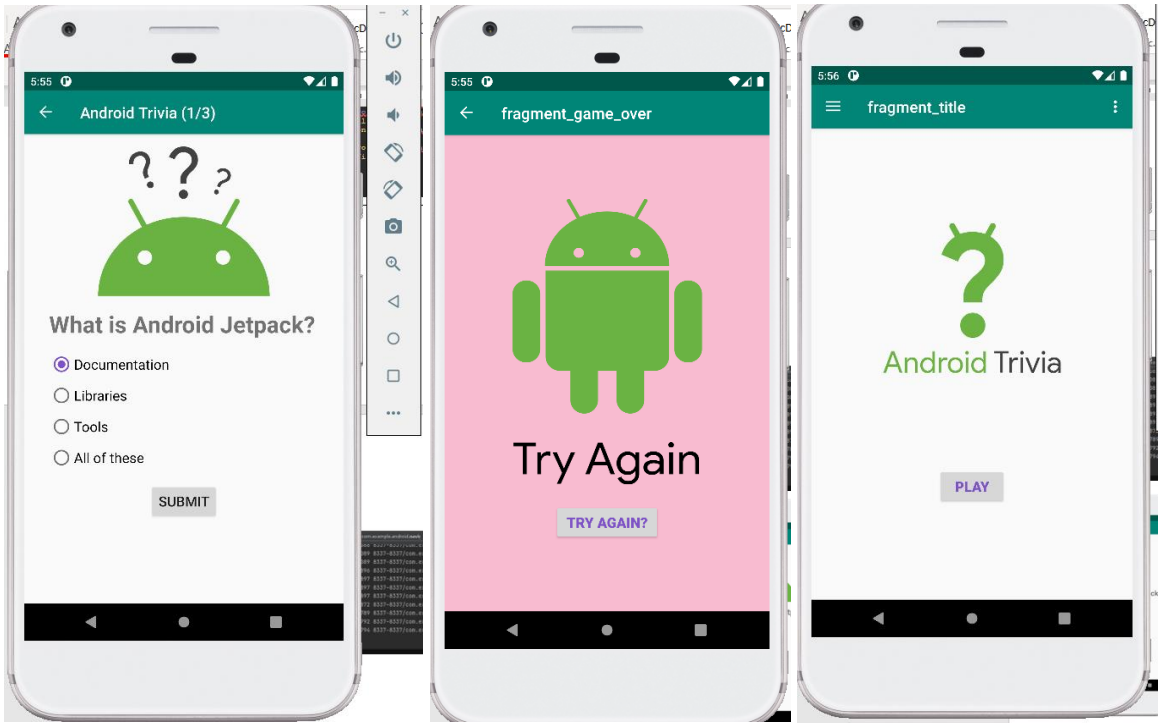

3. layout


Emulator Pixel_XL_API_3
com.example.android.navi
Verbose
Regex
Show only selected applicat
2021-11-05 01:54:21.089 8337-8337/com.example.android.navigation I/TitleFragment: onStop called
2021-11-05 01:54:21.089 8337-8337/com.example.android.navigation I/TitleFragment: onDestroyView called
2021-11-05 01:54:32.896 8337-8337/com.example.android.navigation I/TitleFragment: onCreateView called
2021-11-05 01:54:32.897 8337-8337/com.example.android.navigation I/TitleFragment: onViewCreated called
2021-11-05 01:54:32.897 8337-8337/com.example.android.navigation I/TitleFragment: onStart called
2021-11-05 01:54:32.897 8337-8337/com.example.android.navigation I/TitleFragment: onResume called
2021-11-05 01:54:47.872 8337-8337/com.example.android.navigation I/TitleFragment: onPause called
2021-11-05 01:54:48.789 8337-8337/com.example.android.navigation I/TitleFragment: onStop called
2021-11-05 01:54:48.792 8337-8337/com.example.android.navigation I/TitleFragment: onDestroyView called
2021-11-05 01:54:48.794 8337-8337/com.example.android.navigation I/TitleFragment: onDetach called


Android Trivia (1/3)
What is Android Jetpack?
Documentation
Libraries
Tools
All of these
SUBMIT
fragment_game_over
Try Again
TRY AGAIN?
fragment_title
Android Trivia
PLAY