

**Title:** QUIZ APP: Code Crackers Challenge.

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**Course Code:** INFT 3101

**Institution Name:** Durham College

**Date:** 30/09/2024

**Logo:**

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## App Code

```

<TextView
    android:layout_marginEnd="232dp"
    android:text="INF3101 - Android Studio: App Development"
    android:textSize="20dp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.282"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="177dp"
    android:layout_height="63dp"
    android:layout_marginStart="121dp"
    android:layout_marginTop="24dp"
    android:layout_marginEnd="232dp"
    android:text="Favorite Quote: The only way to create the future is to make it."
    android:textSize="15dp"
    android:textStyle="italic"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.453"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView2" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

```

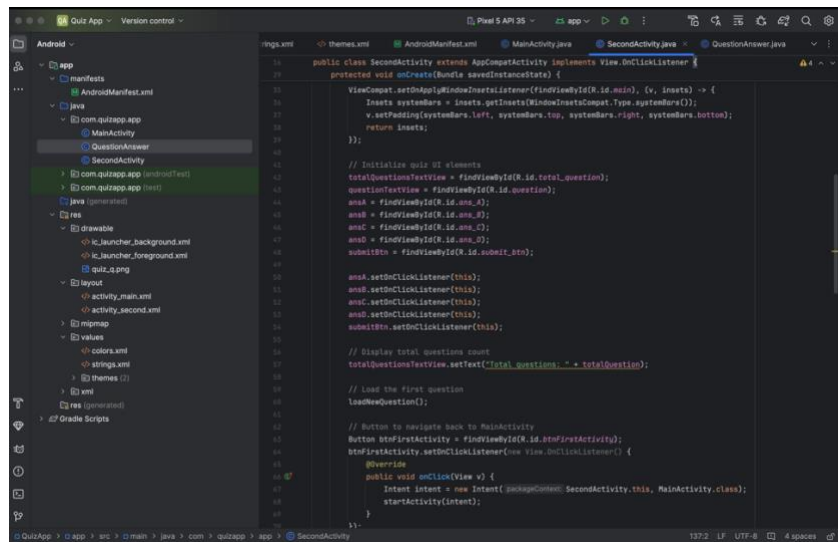
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/dark_green"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Code Creators Challenge"
        android:textColor="@color/material_dynamic_neutral100"
        android:textSize="18sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.538"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.461" />

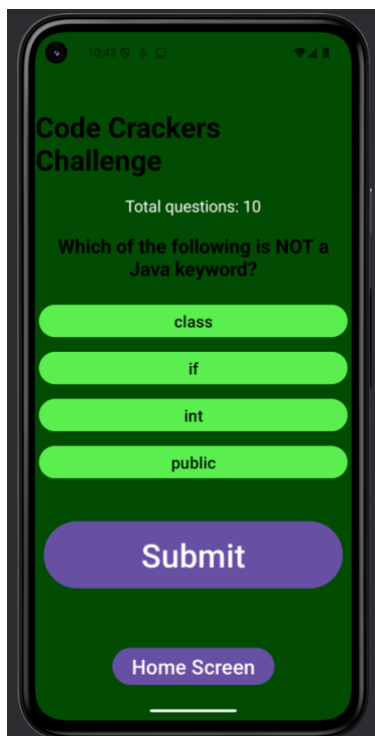
    <Button
        android:id="@+id/startQuizButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="15dp"
        android:background="@color/dark_green"
        android:text="Start Quiz"
        android:textColor="@color/material_dynamic_neutral100"
        android:textSize="18sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

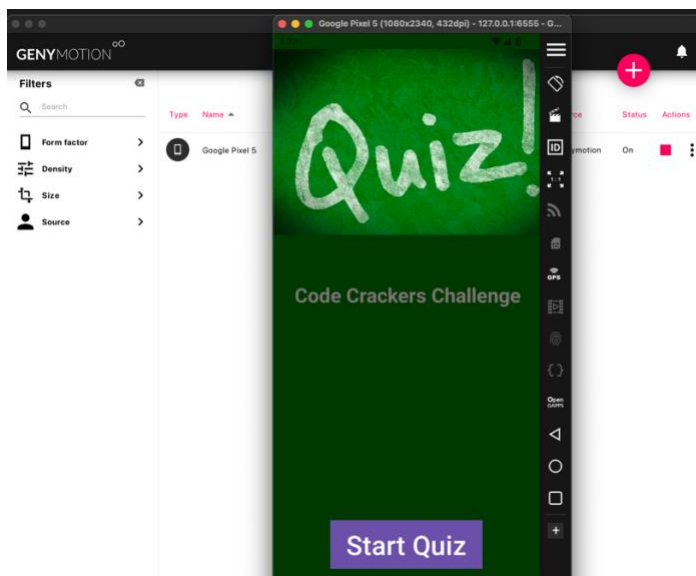
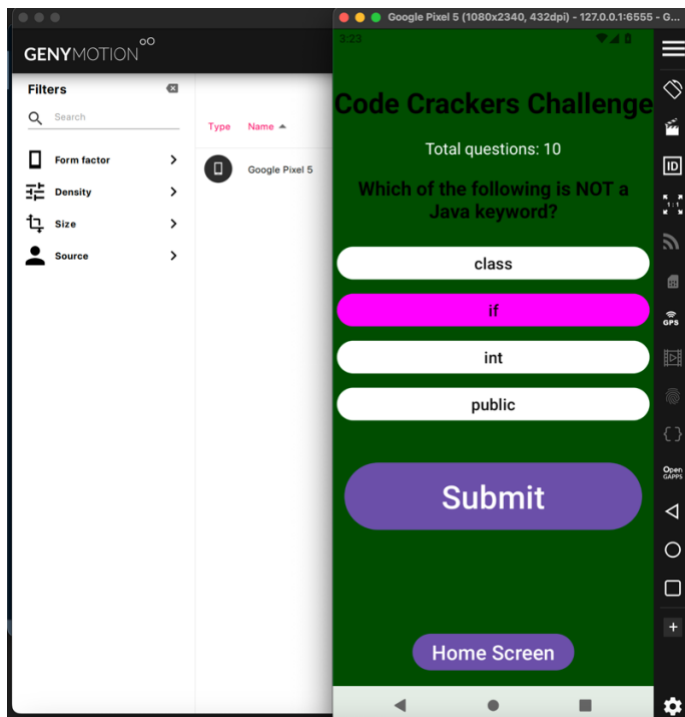
</androidx.constraintlayout.widget.ConstraintLayout>

```



**Screenshots** of the app running in both the Android Studio *page* **AND** external emulator Genymotion.





## Reflection.

Working on this assignment in Android Studio was a valuable learning experience. At first, I found the platform overwhelming due to its complexity and wide range of tools. However, as I progressed through the project, I became more comfortable navigating the interface and managing the various components, which helped me build a stronger understanding of Android development.

One of the main challenges was understanding the project structure. It took some time to get used to how the Manifest file, Java/Kotlin code, and XML layout files all interact. As I became more familiar with this modular organization, the development process became smoother and more efficient.

Another challenge was designing the user interface with `ConstraintLayout`. Creating a responsive layout that worked well across different devices involved a lot of trial and error. Testing layouts on both emulators and physical devices helped me better understand how to use constraints effectively.

Debugging was also difficult at first. Logcat's error messages were overwhelming, but I learned how to filter logs to identify problems, such as `NullPointerExceptions` and missing resources. This became a key skill in managing and resolving issues.

The activity lifecycle was one of the more complex concepts I tackled. Learning to manage state changes between activities was challenging but crucial for ensuring smooth navigation and handling user interactions properly.