**Week 8: Create an applicaƟon that implements mulƟ threading**

# acƟvity\_main.xml

<?xml version="1.0" encoding="uƞ-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="hƩp://schemas.android.com/apk/res/androi d"

xmlns:app="hƩp://schemas.android.com/apk/res-auto" xmlns:tools="hƩp://schemas.android.com/tools" android:id="@+id/main" android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainAcƟvity">

<ImageView android:id="@+id/imageView" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"

app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.498" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.26" app:srcCompat="@drawable/ic\_launcher\_background"

/>

<BuƩon android:id="@+id/buƩon"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Load image 1" app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.187" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.658" />

<BuƩon android:id="@+id/buƩon2"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Load image 2" app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.753" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.658" />

</androidx.constraintlayout.widget.ConstraintLayout>

# MainAcƟvity.java

package com.example.week8;

import android.os.Bundle; import android.view.View; import android.widget.BuƩon;

import android.widget.ImageView;

import androidx.appcompat.app.AppCompatAcƟvity;

public class MainAcƟvity extends AppCompatAcƟvity { ImageView img;

BuƩon bt1, bt2;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*acƟvity\_main*);

bt1 = (BuƩon) ﬁndViewById(R.id.*buƩon*); bt2 = (BuƩon) ﬁndViewById(R.id.*buƩon2*);

img = (ImageView) ﬁndViewById(R.id.*imageView*); bt1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) { new Thread(new Runnable() {

@Override

public void run() { img.post(new Runnable() {

@Override

public void run() {

}

});

}

img.setImageResource(R.drawable.*hehe*);

}

});

}).start();

bt2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) { new Thread(new Runnable() {

@Override

public void run() { img.post(new Runnable() {

@Override

public void run() {

img.setImageResource(R.drawable.*hehehe*);

}

});

}

}

});

}

}

}).start();