

## Lab Exercise 08(b): Fragments Lifecycle

### ActivityMain.java

```
package com.example.lab08;

import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentTransaction;

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

public class MainActivity extends AppCompatActivity {

    Button btn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        btn = findViewById(R.id.button);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                AddFragment(new BlankFragment());
            }
        });
    }

    private void AddFragment(Fragment fragment) {
        FragmentManager fragManager = getSupportFragmentManager();
        FragmentTransaction fraTransaction = fragManager.beginTransaction();
        fraTransaction.replace(R.id.frameLayout, fragment);
        fraTransaction.commit();
    }
}
```

## activity\_main.xml

```
<?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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <FrameLayout
        android:id="@+id/frameLayout"
        android:layout_width="412dp"
        android:layout_height="386dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0">

    </FrameLayout>

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/add_fragment"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/frameLayout" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

## blank\_fragment.xml

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#23b0bd"
    tools:context=".BlankFragment">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="45sp"
        android:layout_marginBottom="45sp"
        android:fontFamily="serif"
        android:text="@string/my_new_fragment"
        android:textAlignment="center"
        android:textColor="#1B5E20"
        android:textSize="40sp"
        android:textStyle="bold" />

</FrameLayout>
```

## Blank\_Fragment.java

```
package com.example.lab08;

import android.content.Context;
import android.os.Bundle;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

import androidx.fragment.app.Fragment;

public class BlankFragment extends Fragment {

    private static final String FragmentName = BlankFragment.class.getSimpleName();
    private static final String TAG = FragmentName;

    @Override
    public void onAttach(Context context) {
        super.onAttach(context);
        Log.i(TAG, FragmentName + " onAttach Function");
    }

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        Log.i(TAG, FragmentName + " onCreate Function");
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        Log.i(TAG, FragmentName + " onCreateView Function");
        //Inflate the layout for this fragment
        return inflater.inflate(R.layout.blank_fragment, container, false);
    }

    @Override
    public void onStart() {
        super.onStart();
        Log.i(TAG, FragmentName + " onStart Function");
    }

    @Override
    public void onResume() {
        super.onResume();
        Log.i(TAG, FragmentName + " onResume Function");
    }

    @Override
    public void onPause() {
        super.onPause();
        Log.i(TAG, FragmentName + " onPause Function");
    }

    @Override
    public void onDestroy() {
        super.onDestroy();
        Log.i(TAG, FragmentName + " onDestroy Function");
    }

    @Override
    public void onStop() {
        super.onStop();
        Log.i(TAG, FragmentName + " onStop Function");
    }
}
```

```
}  
  
@Override  
public void onDetach() {  
    super.onDetach();  
    Log.i(TAG, FragmentName + " onDetach Function");  
}  
}
```

## OUTPUT

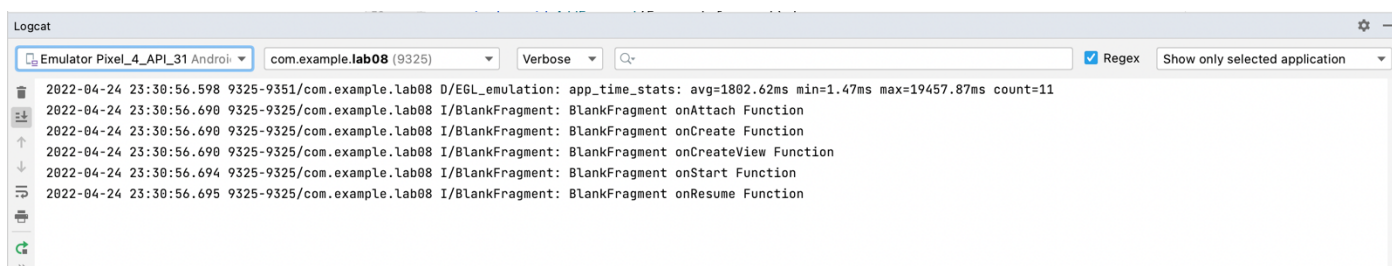


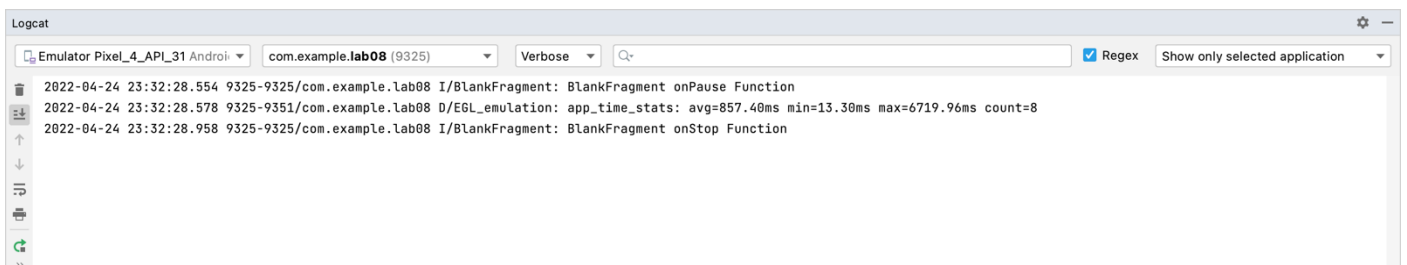
ADD FRAGMENT





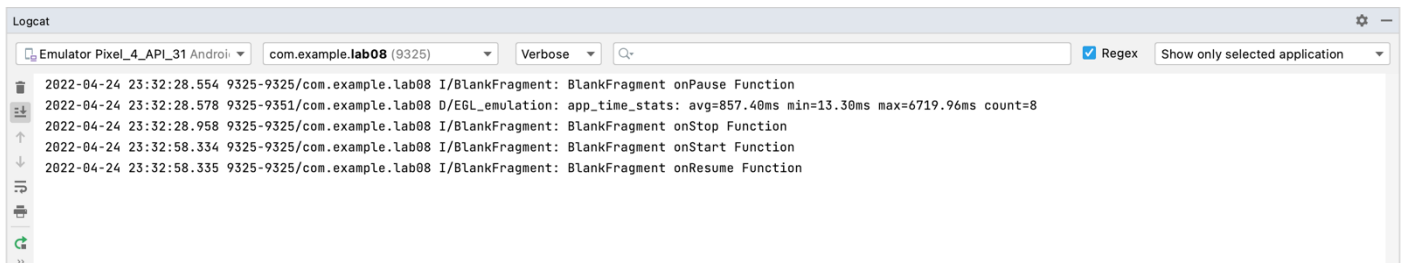
ADD FRAGMENT







ADD FRAGMENT



## Created a New Fragment



ADD FRAGMENT

