Exp.No:13 Date:	Stop Watch

ABOUT SRS STOP WATCH APK

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APPLICATION INFORMATION:

- Version: "1.0"
- Updated on: 04.12.2021
- Released on: 04.12.2021
- Download size: 4 mb
- Application requirements:
  1. Control vibration
  2. Prevent phone from sleeping
  3. Run at start-up

APPLICATION FEATURES:

- Measure the time of any situation, like sports, cooking, games, education, etc.
- Offline feature

DESCRIPTION:

- You can use stop watch app and manage time easily.

HOW TO INSTALL SRS STOP WATCH APK FOR AN ANDROID

- Download SRS Stop Watch APK file from SameAPK.com, then follow these steps:

UPDATE PHONE SETTINGS

- Go to your phone Settings page
- Tap Security or Applications (varies with device)
- Check the Unknown Sources box
- Confirm with OK

GO TO DOWNLOADS

- Open Downloads on your device by going to My Files or Files
- Tap Install when prompted, the APK file you downloaded will be installed on your device.

HOW TO INSTALL STOP WATCH APK ON WINDOWS 7/8/9/10 OR MAC PC?

- Download Stop Watch APK file from SameAPK.com to your PC (ex: /Users/xxx/Downloads/), then follow these steps:

USING EMULATOR

- Download And Install one Emulator Softwares (Ex: Bluestacks, GenyMotion, NoxPlayer)

SOURCE CODE:

activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
   android:gravity="center"
   android:orientation="vertical"
   tools:context="com.codinginflow.chronometerexample.MainActivity">

   <Chronometer
      android:id="@+id/chronometer"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:textSize="30sp" />

   <Button
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:onClick="startChronometer"
      android:text="Start" />

   <Button
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:onClick="pauseChronometer"
      android:text="Pause" />

   <Button
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
```

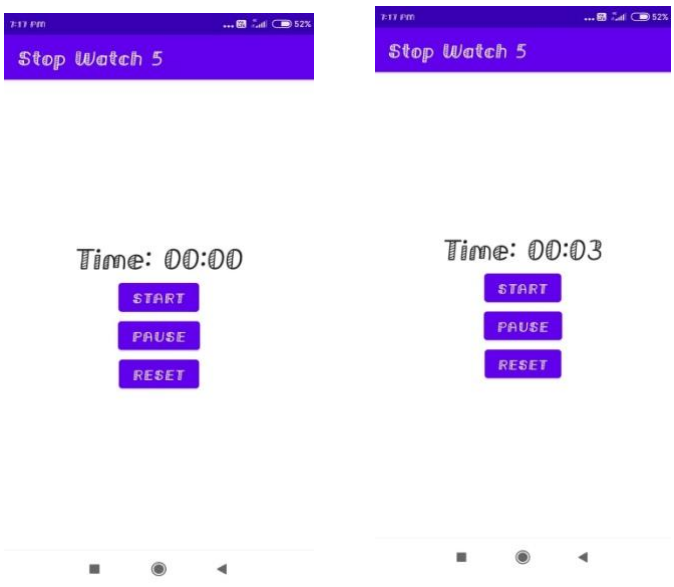
```
        android:onClick="resetChronometer"
        android:text="Reset" />

</LinearLayout>
```

MainActivity.java:

```
package com.example.stopwatch;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.os.SystemClock;
import android.view.View;
import android.widget.Chronometer;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    private Chronometer chronometer;
    private long pauseOffset;
    private boolean running;

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

        chronometer = findViewById(R.id.chronometer);
        chronometer.setFormat("Time: %s");
        chronometer.setBase(SystemClock.elapsedRealtime());

        chronometer.setOnChronometerTickListener(new
Chronometer.OnChronometerTickListener() {
            @Override
            public void onChronometerTick(Chronometer chronometer) {
                if ((SystemClock.elapsedRealtime() - chronometer.getBase()) >= 10000) {
                    chronometer.setBase(SystemClock.elapsedRealtime());
                    Toast.makeText(MainActivity.this, "Bing!", Toast.LENGTH_SHORT).show();
                }
            }
        });
    }

    public void startChronometer(View v) {
        if (!running) {
            chronometer.setBase(SystemClock.elapsedRealtime() - pauseOffset);
            chronometer.start();
            running = true;
        }
    }
```

```
    public void pauseChronometer(View v) {
        if (running) {
            chronometer.stop();
            pauseOffset = SystemClock.elapsedRealtime() - chronometer.getBase();
            running = false;
        }
    }

    public void resetChronometer(View v) {
        chronometer.setBase(SystemClock.elapsedRealtime());
        pauseOffset = 0;
    }
}
```

OUTPUT:



RESULT:

Thus the project for creating stop watch was executed successfully.