

BAHRIA UNIVERSITY, (Karachi Campus)

Department of Software Engineering Open Ended Lab -1

Course Code: SEL-448

Semester Fall 2023

Course Title: Software Application & Mobile Devices

Course Instructor: Engr. Adnan Ur Rehman

Class: BSE-6(B)

Lab Instructor:Engr. HamzaName:Shoaib Akhter

Max. Marks: 12 Marks Reg no:

79290

Time: 1:30 hours Date:

INSTRUCTIONS:

• Submit the task on LMS within given time.

• Include your name or enrollment number in the page footer.

• Your file name should be in the given format:

o [Class Section] [Complete Name] SMAD(OEL1) i.e., BSE1C Usman Ali SMADOEL1

Question no 1

Scenario: (CLO 4, Marks: 10)

You have been tasked to Implement an Android application using Android Studio and Java. The aim of the app is to provide users with a convenient tool for setting and managing alarms on their mobile devices. With the increasing reliance on alarms in our daily routines, this app will serve as a reliable wake-up assistant, ensuring users never miss important appointments or tasks.

Tasks:

- 1. **User Interface Design:** Design an intuitive and user-friendly interface that allows users to easily set, edit, and delete alarms. Include features such as a digital or analog clock display, a list of existing alarms, and options for customization such as alarm tone selection and snooze settings.
- 2. **Alarm Functionality:** Determine the core functionalities of the alarm system, including the ability to set one-time or recurring alarms, specify the time and date for each alarm, and configure additional settings such as vibration or gradual volume increase.
- 3. **Install Using ADB or AVD:** Install the Implemented Application in your Android Device or Virtual Device.

Note: Provide all Screenshot (xml & .java) files of all Classes in Implemented Application in the Submission file in pdf format

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <!--Added Time picker just to pick the alarm time-->
    <!--gravity is aligned to center-->
    <TimePicker
        android:id="@+id/timePicker"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center" />

    <!--Added Toggle Button to set the alarm on or off-->
    <!--ByDefault toggleButton is set to false-->
    <ToggleButton
        android:id="@+id/toggleButton"
        android:layout_width="wrap_content"
        android:layout_pravity="center"
        android:layout_margin="20dp"
        android:layout_margin="20dp"
        android:checked="false"
        android:checked="false"
        android:checked="folicked" />

    <!--"OnToggleClicked" method will be implemented in MainActivity.java -->

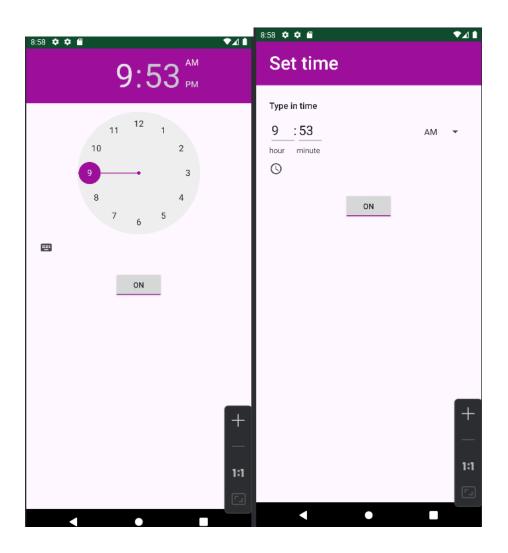
</LinearLayout>
```

Theme.xml

Color.xml

AlarmReceiver.java

```
package com.example.assignment1;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.media.Ringtone;
import android.media.RingtoneManager;
```





TASK # 02: Viva (CLO6, Marks: 02)