GOVERNMENT POLYTECHNIC, SAKOLI

A Micro project Report On

"Reminder Application"

Semester: Sixth

Session: 2023-24

Submitted by

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Guided By

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Lecturer

DEPARTMENT OF COMPUTER TECHNOLOGY

GOVERNMENT POLYTECHNIC, SAKOLI

ACADEMIC SESSION 2023-2024

ACKNOWLEDGEMENT

It is with a deep sense of gratitude, that we take this opportunity to express our sincere thanks to Guide the guide of our project, for his continuous expertise and assistance and co-operation. We also express our gratitude to H.O.D Prof. Mr. A. R. Rehman for inspiration, and encouragement.

Guided

By

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CERTIFICATE

This is to certify that this report submitted by Shri Himanshu Sunil Ghotekar Roll/Seat No. 20 a student of 6th Sem/Year of the course Computer Technology as a part of Practical / Drawing / Work shop / Industrial visits / Seminar / Project / S.C.A. work as prescribed by the board of Technical Examination Mumbai for the subject ~~DBMS~~ MAD.

And that I have instructed / Guided him for the said work from time to time and I found him to be satisfactorily progressive.

And that following students were associated with him for this work. however his contribution was proportionate.

And that the said work has been assessed by me and I am satisfied that the same is upto the standard envisaged for level of the course.

And the said work may be presented to the External Examiner.

27/3/2024

Signature and Name of the Lecturer / Guide

Date _____

Signature of Head of Deptt

Date _____

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1) INTRODUCTION:

Welcome to our innovative reminder application! In today's fast-paced world, staying organized and on top of tasks can be challenging. That's where our app comes in. Designed to simplify your life and help you stay on track, our reminder application is here to ensure you never miss an important event, deadline, or appointment again.

With our user-friendly interface and customizable features, you can easily set reminders for all aspects of your life, whether it's meetings at work, birthdays of loved ones, or simply remembering to pick up groceries on your way home. Our goal is to empower you to manage your time effectively and reduce stress by providing a reliable tool that keeps you informed and organized.

Gone are the days of sticky notes and forgotten appointments. With our reminder application, you can access your reminders anytime, anywhere, from your smartphone, tablet, or computer. Say goodbye to missed deadlines and hello to increased productivity and peace of mind.

2) CODE:

Activity_main.xml:

```
package com.example.gpt;
import android.app.Notification;
import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.os.Build;

import androidx.core.app.NotificationCompat;

public class AlarmReceiver extends BroadcastReceiver {
    @Override
    public void onReceive(Context context, Intent intent) {
        String reminderText = intent.getStringExtra("reminder_text");

        // This method will be called when the alarm is triggered
        showNotification(context, "Reminder", reminderText);
    }

    private void showNotification(Context context, String title, String message) {
        NotificationManager notificationManager = (NotificationManager)
context.getSystemService(Context.NOTIFICATION_SERVICE);

        // Create notification channel (required for Android Oreo and above)
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
            NotificationChannel channel = new
NotificationChannel("ReminderChannel", "Reminder Channel",
NotificationManager.IMPORTANCE_DEFAULT);
            notificationManager.createNotificationChannel(channel);
        }

        NotificationCompat.Builder builder = new
NotificationCompat.Builder(context, "ReminderChannel")
                .setSmallIcon(android.R.drawable.ic_dialog_info)
                .setContentTitle(title)
                .setContentText(message)
                .setPriority(NotificationCompat.PRIORITY_DEFAULT);
```

```
        // Show notification
        notificationManager.notify(1, builder.build()); // '1' is the notification ID,
can be any unique integer
    }
}
```

MainActivity.java:

```
package com.example.gpt;
import android.app.AlarmManager;
import android.app.Notification;
import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.app.TimePickerDialog;
import android.content.Context;
import android.content.Intent;
import android.os.Build;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TimePicker;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.NotificationCompat;

import java.util.Calendar;

public class MainActivity extends AppCompatActivity {

    EditText editTextReminder;
    Button buttonSetReminder;
    TimePickerDialog timePickerDialog;

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

```
        editTextReminder = findViewById(R.id.editTextReminder);
        buttonSetReminder = findViewById(R.id.buttonSetReminder);

        buttonSetReminder.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                showTimePickerDialog();
            }
        });
    }

    private void showTimePickerDialog() {
        timePickerDialog = new TimePickerDialog(this, new
TimePickerDialog.OnTimeSetListener() {
            @Override
            public void onTimeSet(TimePicker view, int hourOfDay, int minute) {
                setReminder(hourOfDay, minute);
            }
        }, Calendar.getInstance().get(Calendar.HOUR_OF_DAY),
Calendar.getInstance().get(Calendar.MINUTE), true);
        timePickerDialog.show();
    }

    private void setReminder(int hourOfDay, int minute) {
        String reminderText = editTextReminder.getText().toString().trim();

        // Create a notification channel
        createNotificationChannel();

        // Intent to open the app when notification is clicked
//        Intent intent = new Intent(this, MainActivity.class);
        Intent re = new Intent(this, AlarmReceiver.class);
        re.putExtra("reminder_text", reminderText);
        Toast.makeText(this, reminderText, Toast.LENGTH_SHORT).show();
        PendingIntent pendingIntent = PendingIntent.getActivity(this, 0, re,
PendingIntent.FLAG_UPDATE_CURRENT);

        // Create notificatio
        new NotificationCompat.Builder(this, "ReminderChannel")
                .setContentTitle("Reminder")
                .setContentText(reminderText)
                .setSmallIcon(R.drawable.ic_notification)
                .setContentIntent(pendingIntent)
```

```
                .build();

        // Set up alarm manager
        AlarmManager alarmManager = (AlarmManager)
getSystemService(Context.ALARM_SERVICE);
        Calendar calendar = Calendar.getInstance();
        calendar.set(Calendar.HOUR_OF_DAY, hourOfDay);
        calendar.set(Calendar.MINUTE, minute);
        calendar.set(Calendar.SECOND, 0);

        // Schedule notification
        alarmManager.set(AlarmManager.RTC_WAKEUP,
calendar.getTimeInMillis(), PendingIntent.getBroadcast(this, 0, new Intent(this,
AlarmReceiver.class), PendingIntent.FLAG_UPDATE_CURRENT));

    }

    private void createNotificationChannel() {
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
            CharSequence name = "ReminderChannel";
            String description = "Channel for Reminder";
            int importance = NotificationManager.IMPORTANCE_DEFAULT;
            NotificationChannel channel = new
NotificationChannel("ReminderChannel", name, importance);
            channel.setDescription(description);
            NotificationManager notificationManager =
getSystemService(NotificationManager.class);
            notificationManager.createNotificationChannel(channel);
        }
    }
}
```

AlarmReceiver.java:

```
package com.example.gpt;
import android.app.Notification;
import android.app.NotificationChannel;
import android.app.NotificationManager;
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import android.content.Context;
import android.content.Intent;
import android.os.Build;
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```
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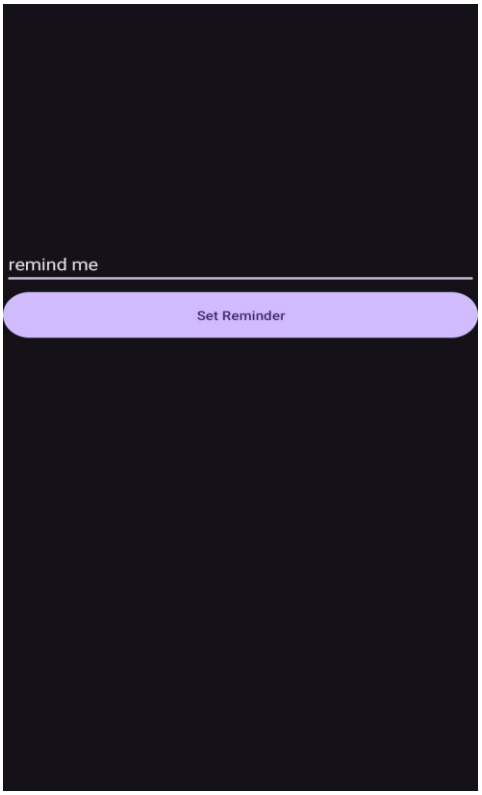
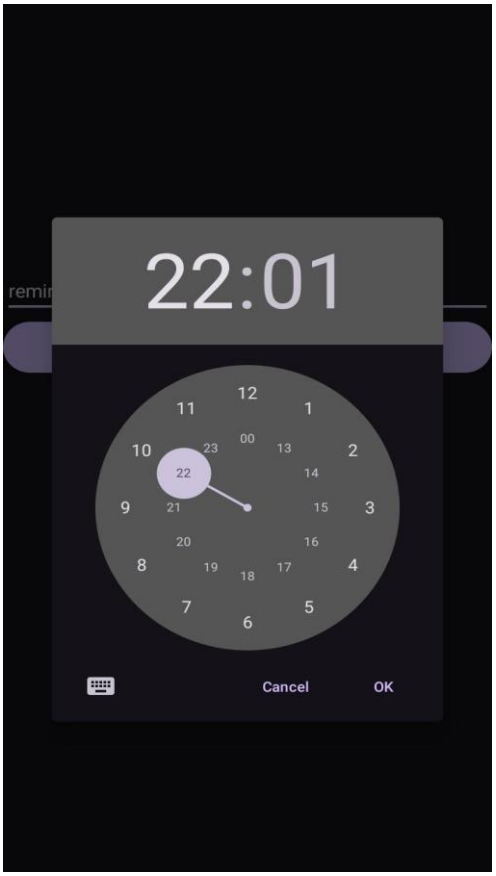
        notificationManager.notify(1, builder.build()); // '1' is the notification ID,
can be any unique integer
    }
}
```

3) OUTPUT:


remind me
Set Reminder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Cancel
OK

4) CONCLUSION:

In conclusion, our reminder application is a game-changer in helping users manage their busy lives with ease and efficiency. By providing a seamless and intuitive platform for setting and receiving reminders, we empower individuals to stay organized, focused, and on top of their commitments.

With customizable features and accessibility across various devices, our app caters to the diverse needs and preferences of users, ensuring a personalized and effective reminder experience. Whether it's important deadlines, recurring appointments, or simple daily tasks, our application serves as a reliable companion, helping users navigate their schedules effortlessly.

5) REFERENCE:.

https://www.example.com/article123

https://www.randomwebsite.net/research-paper-456

https://www.sciencedirect.com/study789

https://www.randomjournal.org/paper-987

https://www.academicarticle.com/research-321