

MOBILE APPLICATION DEVELOPMENT LAB

PROJECT DOCUMENTATION

Title: Anti-Procrastination App

Abstract:

This project introduces an **Anti-Procrastination App** developed using **Android Studio** with **Java and XML** to help users manage time effectively and reduce delays in completing tasks. The application includes features such as task scheduling, reminder notifications, focus mode, and motivational messages to encourage consistent productivity. A clean user interface and smooth navigation improve user engagement, while local storage ensures tasks and progress are saved securely. Overall, the app provides a simple yet effective solution for building better habits and overcoming procrastination.

Codes:

MainActivity.java:

```
package com.example.antiprocrastination;

import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    EditText activityInput;
    Button startButton, aboutMeButton;

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

        activityInput = findViewById(R.id.activityInput);
        startButton = findViewById(R.id.startButton);
        aboutMeButton = findViewById(R.id.aboutMeButton);

        // Start Task (go to TaskActivity)
        startButton.setOnClickListener(view -> {
            String activityType = activityInput.getText().toString().trim();

            Intent intent = new Intent(MainActivity.this, TaskActivity.class);
            intent.putExtra("activityType", activityType);
            startActivity(intent);
        });
    }
}
```

```

    });

    // About Me
    aboutMeButton.setOnClickListener(view -> {
        Intent intent = new Intent(MainActivity.this, ProfileActivity.class);
        startActivity(intent);
    });
}
}
}

```

ProfileActivity.java:

```

package com.example.antiprocrastination;

import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;

public class ProfileActivity extends AppCompatActivity {

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

        Button backButton = findViewById(R.id.backButton);
        backButton.setOnClickListener(view -> {
            Intent intent = new Intent(ProfileActivity.this, MainActivity.class);
            startActivity(intent);
            finish();
        });
    }
}

```

TaskActivity.java:

```

package com.example.antiprocrastination;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;

import java.util.Random;

public class TaskActivity extends AppCompatActivity {

    TextView taskText;
    Button startTimerButton;
    String activityType;
    String[] academicTasks = {"Write a paragraph", "Solve a math problem", "Read a short article"};
    String[] funTasks = {"Stretch for 5 mins", "Draw a doodle", "Listen to a song"};
    String selectedTask;
}

```

```

@SuppressLint("MissingInflatedId")
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_task);

    taskText = findViewById(R.id.taskText);
    startTimerButton = findViewById(R.id.startTimerButton);

    activityType = getIntent().getStringExtra("activityType");

    selectedTask = getRandomTask(activityType);
    taskText.setText(selectedTask);

    startTimerButton.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent intent = new Intent(TaskActivity.this, TimerActivity.class);
            intent.putExtra("task", selectedTask);
            intent.putExtra("activityType", activityType);
            startActivity(intent);
        }
    });
}

private String getRandomTask(String type) {
    Random rand = new Random();
    if (type.equalsIgnoreCase("Academic")) {
        return academicTasks[rand.nextInt(academicTasks.length)];
    } else {
        return funTasks[rand.nextInt(funTasks.length)];
    }
}

```

TimerActivity.java:

```

package com.example.antiprocrastination;

import android.content.Intent;
import android.os.Bundle;
import android.os.CountDownTimer;
import android.widget.Button;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;

public class TimerActivity extends AppCompatActivity {

    TextView timerTaskText, countdownText;
    Button completeButton;
    String activityType, task;

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

```

```

timerTaskText = findViewById(R.id.timerTaskText);
countdownText = findViewById(R.id.countdownText);
completeButton = findViewById(R.id.completeButton);

// Initially hide the complete button until timer finishes
completeButton.setVisibility(Button.INVISIBLE);

// RECEIVE TASK PROPERLY
task = getIntent().getStringExtra("task");
activityType = getIntent().getStringExtra("activityType");

// DISPLAY THE CORRECT TASK
if (task != null) {
    timerTaskText.setText("Task: " + task);
} else {
    timerTaskText.setText("Task not received!");
}

// COMPLETE BUTTON CLICK
completeButton.setOnClickListener(view -> {
    Intent intent = new Intent(TimerActivity.this, CompletionActivity.class);
    intent.putExtra("activityType", activityType);
    startActivity(intent);
    finish();
});

// START 5-MINUTE TIMER
startTimer(5 * 60); // 5 minutes
}

private void startTimer(int seconds) {
    new CountDownTimer(seconds * 1000, 1000) {
        public void onTick(long millisUntilFinished) {
            int sec = (int) (millisUntilFinished / 1000);
            countdownText.setText(String.format("%02d:%02d", sec / 60, sec % 60));
        }

        public void onFinish() {
            countdownText.setText("00:00");
            completeButton.setVisibility(Button.VISIBLE);
        }
    }.start();
}
}

```

CompletionActivity.java:

```

package com.example.antiprocrastination;

import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;

public class CompletionActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {

```

```

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_completion);

String activityType = getIntent().getStringExtra("activityType");

Button proceedButton = findViewById(R.id.proceedButton);
proceedButton.setOnClickListener(view -> {
    Intent intent = new Intent(CompletionActivity.this, FeedbackActivity.class);
    intent.putExtra("activityType", activityType);
    startActivity(intent);
    finish();
});
}
}

```

FeedbackActivity.java:

```

package com.example.antiprocrastination;

import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;

public class FeedbackActivity extends AppCompatActivity {

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

        Button backButton = findViewById(R.id.backButton);
        backButton.setOnClickListener(view -> {
            Intent intent = new Intent(FeedbackActivity.this, MainActivity.class);
            startActivity(intent);
            finish();
        });
    }
}

```

Images:

8:05



Anti Procrastination App

Type Academic or Fun

START TASK

ABOUT ME

8:05



Profile

Name: Hasini

Roll Number: 2451-23-737-087

BACK TO HOME

8:06



Anti Procrastination App

fun

START TASK

ABOUT ME

8:06



Draw a doodle

START TIMER

8:06



Task: Draw a doodle

04:57

8:12



Task Completed!

PROCEED TO FEEDBACK

8:12



Well done!

BACK TO HOME

