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## **Mini Project Report**



**SDM COLLEGE (Autonomous)**

**Ujire – 574240**

### **REMINDER APPLICATION**

**By**

**VINEETH M**

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**Under the guidance of**

**Ms. Rakshitha H J**

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**SRI DHARMASTHALA MANJUNATHESWARA COLLEGE  
(AUTONOMOUS)**

**Ujire – 574240**

**Department of Software and Application Development**



**Certificate for the approval of project report**

This is to certify that VINEETH M, 211350 of II B.voc has satisfactorily completed the Android App project “Expense Tracker System” for the B.voc in Software and Application Development Degree Prescribed by the college during the academic year 2022 – 2023.

Mr. Sammed Jain

Ms. Rakshitha H J

Dr Kumara Hegde B A

**Head of the Department**

**Project Guide**

**Principal**

Examiners:

- 1.
- 2.

## **DECLARATION**

I hereby declare that this Android App project work entitled “REMINDER APPLICATION ” has been prepared by me during the year 2022 – 2023 under the guidance of Ms. Rakshitha H J, Department of B.voc in Software and Application Development, SDM College in the partial fulfillment of B.voc degree prescribed by the college.

I also declare that this project is the outcome of My own effort, that it has not been submitted to any other university for the award of any degree.

VINEETH M,

211350

## **ACKNOWLEDGEMENT**

I would like to thank our principal Dr. Kumara Hegde B A, for his support. We also thank Mr. Sammed Jain HOD, Dept. of B.voc in Software and Application Development, SDM College Ujire, for his valuable suggestions.

I would like to thank Ms. Rakshitha H J, Department of B.voc in Software and Application Development, SDM College Ujire, for their help and for providing guidance in developing the project.

VINEETH M

# INDEX

Chapter No.	Chapter Name	Page No.
Chapter 1	Introduction	1
Chapter 2	Requirement specification	2
Chapter 3	Implementation	3
Chapter 4	Results	4
Chapter 5	Source code	12
Chapter 6	Conclusions and Scope for future work	25
	Bibliography	26

# Chapter 1

## Introduction

Introducing the Reminder App: Simplifying Your Life with Personalized Reminders

Are you tired of forgetting important tasks, appointments, or deadlines? Say goodbye to missed opportunities and hello to enhanced productivity with Reminder, the ultimate reminder application designed to keep you on top of your schedule. Whether you're a busy professional, a student juggling multiple commitments, or someone who simply wants to stay organized, Reminder is here to help.

With Reminder, you can effortlessly set up reminders for various aspects of your life, ensuring that you never miss a beat. From important meetings and project deadlines to birthdays and anniversaries, our app enables you to manage and prioritize your tasks effectively. Seamlessly integrated into your daily routine, Reminder acts as your personal assistant, keeping you informed and in control.

Key Features:

1. **Customized Reminders:** Tailor your reminders to your specific needs. Set the date, time, and frequency of your alerts, and choose from a variety of notification options such as pop-up messages, push notifications, or email reminders.
2. **Categorize and Prioritize:** Organize your reminders by creating personalized categories and assigning priority levels. Whether it's work-related, personal, or recreational, you can easily differentiate and manage your tasks accordingly.

## Chapter 2

### Requirement Specification

Requirement specification is a specification of software requirements and hardware requirements required to do the project. Requirement analysis encompasses those tasks that go into determining the needs or conditions to meet for a new or altered product or project, taking account of the possibly conflicting requirements of the various stakeholders, analyzing, documenting, validating and managing software or system requirements.

#### 2.1 Hardware Requirements

Sl. No.	Hardware/Equipment	Specification
1	Processor	Intel(R) Core (TM)-i5 Processor
2	Clock Speed	2.30 GHz
3	Monitor	1024*768 Resolution, color
4	RAM	8GB (min.)

#### 2.2 Software Requirements

Sl. No.	Software	Specification
1	Operating System	Windows 11 Home Single Language
2	Scripting	Java, XML
3	Tools Used	Android Studio, Firebase
4	Web Browser	Google Chrome

## **Chapter 3**

### **Implementation**

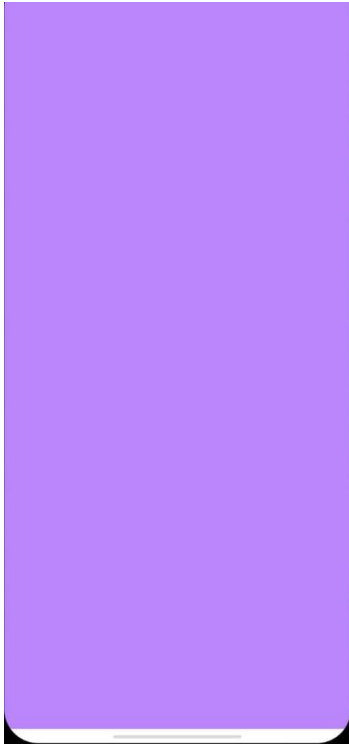
Implementation is a process of development of an application. Once the system design is completed then actual development of system will starts. The development of application using system design is called the implementation phase. In this phase, largest system is divided into small modules. For each module, algorithms are developed and each algorithm is coded using programming languages.



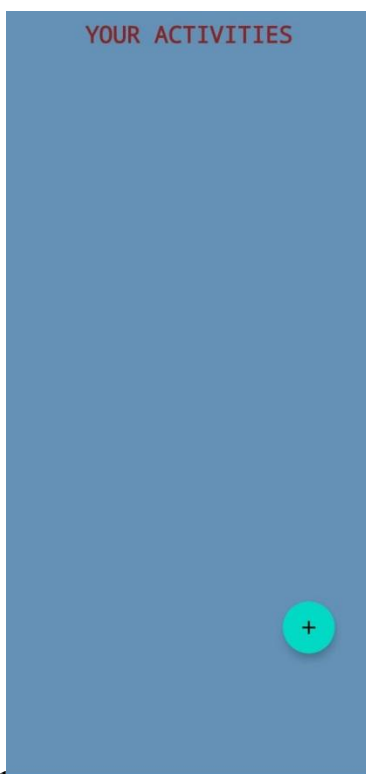
## Chapter 4

### Results

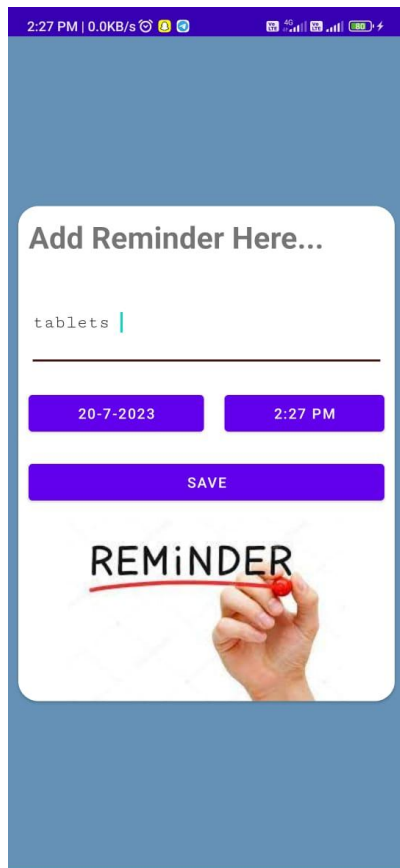
Results basically refer to any particular output that comes as a result of the completion of the activities that have been performed as part of the project or a particular project component.



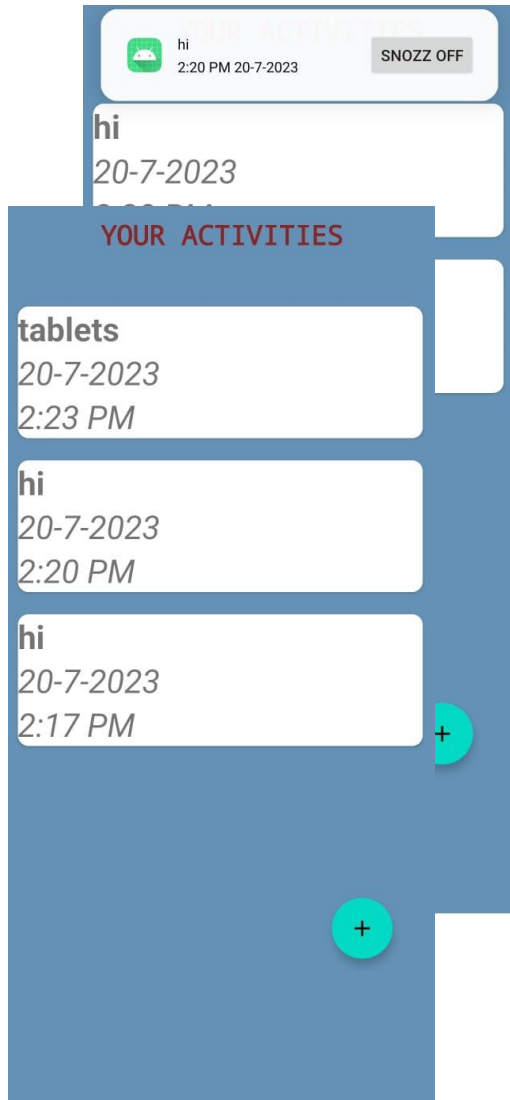
**Figure 4.1:** This is how the Splash Screen looks like.



**Figure 4.2:** Here you can start the reminder by adding plus(+) sign.

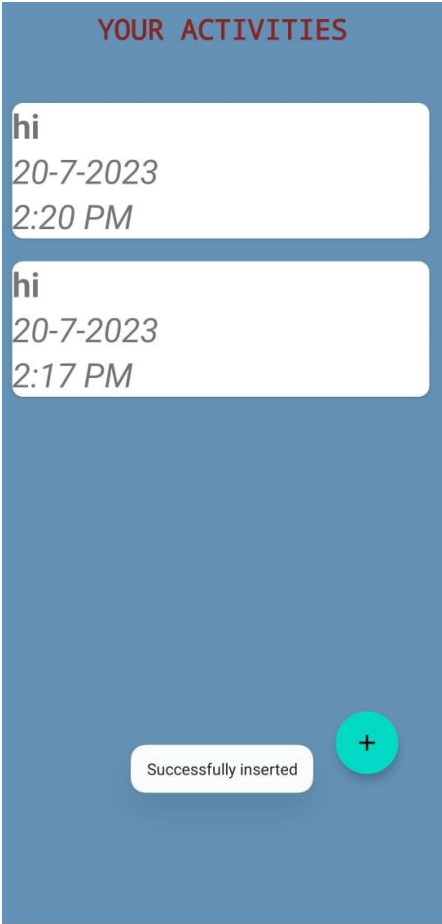


**Figure 4.3:** Here you can add the details.

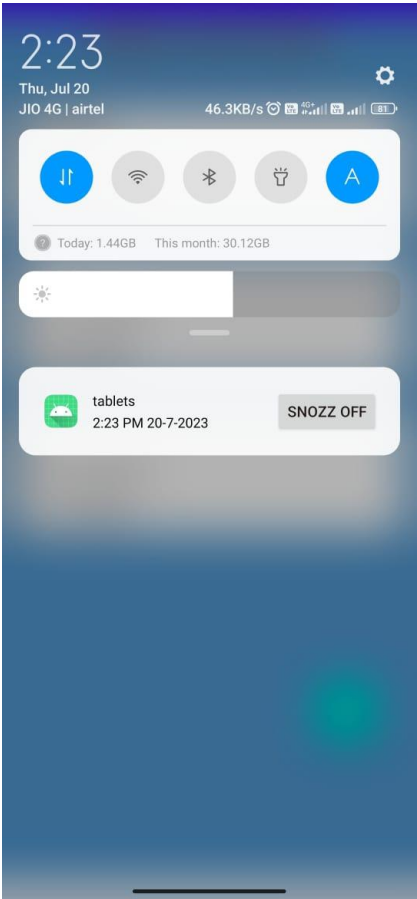


**Figure 4.8:** This page has notification.

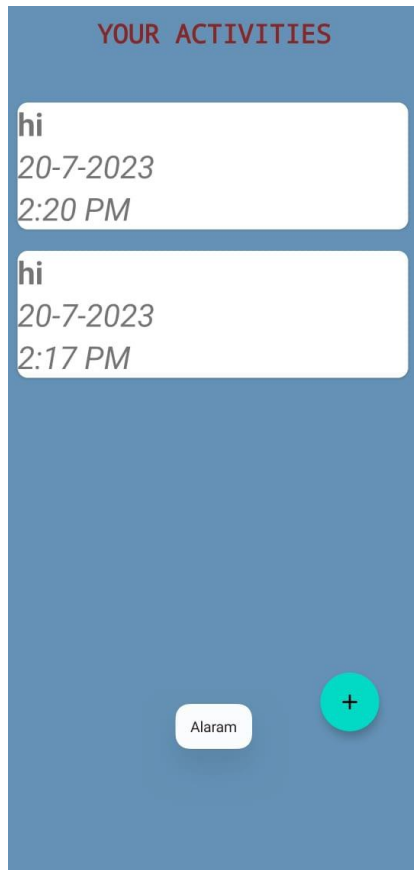
**Figure 4.4 and 4.5:** This page has details of entering data.



**Figure 4.8:** pop up msg of adding details.



**Figure 4.8:** This page has the notification of alaram.



**Figure 4.8:** This page shows the pop up message of showing alaram

## Chapter 5

### Source Code

#### XML code:

```
Activity_.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:background="@color/lightblue"
    android:gravity="center"
    android:orientation="vertical"
    app:backgroundTint="#652929"
    tools:context=".ReminderActivity">
```

```
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="10dp"
    app:cardCornerRadius="20dp">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/cardwhite"
    android:orientation="vertical"
    app:backgroundTint="@null">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_margin="10dp"
    android:text="Add Reminder Here..."
    android:textSize="30dp"
    android:textStyle="bold"
    android:password="true"
    android:textColor="@color/white"
    android:textColorHint="@color/white" /> />
```

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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_gravity="center"
    android:background="@color/black"
    android:layout_height="match_parent"
    android:padding="10dp"
    tools:context=".LoginActivity">
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="357dp"
```

```

android:layout_height="43dp"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="25dp"
android:layout_marginBottom="655dp"
android:gravity="center"
android:text="Expense Tracker System"
android:textColor="#C488EA"
android:textSize="24sp" />

```

```

<EditText
    android:id="@+id/username1"
    android:layout_width="397dp"
    android:layout_height="54dp"
    android:layout_alignParentTop="true"
    android:layout_marginTop="173dp"
    android:background="@drawable/edit_text_border"
    android:gravity="center"
    android:hint="User Name"
    android:textColor="@color/white"
    android:textColorHint="@color/white" />

```

```

<EditText
    android:id="@+id/password1"
    android:layout_width="401dp"
    android:gravity="center"
    android:layout_height="57dp"
    android:layout_below="@+id/username1"
    android:layout_marginTop="65dp"

```

```

<Button
    android:id="@+id/btnsignin1"
    android:layout_width="235dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/password1"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="74dp"
    android:layout_marginEnd="96dp"
    android:background="@drawable/custom_button3"
    android:text="Sign in" />

```

```

<ImageView
    android:id="@+id/imageView"
    android:layout_width="177dp"
    android:layout_height="153dp"

```

```

        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="101dp"
        android:layout_marginBottom="57dp"
        app:srcCompat="@drawable/money1room" />
</RelativeLayout>

```

### activity\_signin.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:padding="30dp"
    android:layout_gravity="center"
    android:background="@color/black"
    tools:context=".SignUpActivity">

```

```

    <TextView
        android:id="@+id/textView"
        android:layout_width="357dp"
        android:layout_height="43dp"
        android:gravity="center"
        android:layout_centerHorizontal="true"
        android:text="Expense Tracker System"
        android:textColor="#C488EA"
        android:textSize="24sp" />

```

```

    <EditText
        android:id="@+id/username"
        android:layout_width="460dp"
        android:layout_height="56dp"
        android:layout_marginTop="70dp"
        android:background="@drawable/edit_text_border"
        android:gravity="center"
        android:hint="user_name"
        android:textColor="@color/white"
        android:textColorHint="@color/white" />

```

```

    <EditText
        android:id="@+id/password"
        android:layout_width="460dp"
        android:textColor="@color/white"
        android:gravity="center"

```

```

android:background="@drawable/edit_text_border"
android:textColorHint="@color/white"
android:layout_height="70dp"
android:layout_below="@+id/username"
android:layout_marginTop="50dp"
android:hint="password"
android:password="true" />

```

<EditText

```

android:id="@+id/repassword"
android:layout_width="451dp"
android:gravity="center"
android:layout_height="76dp"
android:background="@drawable/edit_text_border"
android:textColorHint="@color/white"
android:layout_below="@+id/password"
android:layout_marginTop="50dp"
android:hint="retype_password"
android:textColor="@color/white" />

```

<Button

```

android:id="@+id/btnsignup"
android:layout_width="171dp"
android:layout_height="59dp"
android:layout_below="@+id/repassword"
android:layout_marginTop="89dp"
android:background="@drawable/custom_button3"
android:text="register" />

```

<Button

```

android:id="@+id/btnsignin"
android:layout_width="191dp"
android:layout_height="59dp"
android:layout_below="@+id/btnsignup"
android:layout_alignParentStart="true"
android:layout_alignParentEnd="true"
android:layout_marginStart="190dp"
android:layout_marginTop="-59dp"
android:layout_marginEnd="0dp"
android:background="@drawable/custom_button3"
android:text="existing user !" />

```

</RelativeLayout>

**fragments.\_Expense.xml**



```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:background="@color/black"
    tools:context=".fragments.Expense">

    <TextView
        android:id="@+id/tv_text"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="30dp"
        android:layout_marginTop="20dp"
        android:text="Expense Tracker System"
        android:textColor="@color/white"
        android:textSize="32sp" />

    <TextView
        android:id="@+id/tv_text2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/tv_text"
        android:layout_marginLeft="30dp"
        android:layout_marginTop="15dp"
        android:layout_marginBottom="20dp"
        android:text="Expense"
        android:textColor="@color/white"
        android:textSize="28sp" />

    <RelativeLayout
        android:id="@+id/rr"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/tv_text2">

        <LinearLayout
            android:id="@+id/ll"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_centerHorizontal="true"
            android:gravity="center"
            android:orientation="vertical">

```

```

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:fontFamily="@font/bungee_inline"
    android:text="Expense"
    android:textColor="@color/light_red"
    android:textSize="24sp" />

```

```

<TextView
    android:id="@+id/tvExpense"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Rs. 10000.00"
    android:textColor="@color/light_red"
    android:textSize="24sp" />

```

```

</LinearLayout>

```

```

<ImageView
    android:id="@+id/iv_expensePie"
    android:layout_width="50dp"
    android:layout_height="50dp"
    android:layout_alignParentEnd="true"
    android:layout_centerVertical="true"
    android:layout_marginRight="16dp"
    android:src="@drawable/ic_baseline_pie_chart_24"
    app:tint="@color/purple_200" />

```

```

</RelativeLayout>

```

```

<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/rvExpense"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/rr"
    android:layout_marginTop="14dp"
    android:scrollbars="horizontal"
    tools:listitem="@layout/layout_expense_item2" />

```

```

</RelativeLayout>

```

### **Fragments\_Income.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:background="@color/black"
tools:context=".fragments.Income">

```

```

<TextView
    android:id="@+id/tv_text"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="20dp"
    android:text="Expense Tracker System"
    android:textColor="@color/white"
    android:textSize="32sp" />

```

```

<TextView
    android:id="@+id/tv_text2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/tv_text"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="15dp"
    android:layout_marginBottom="20dp"
    android:text="Income"
    android:textColor="@color/white"
    android:textSize="28sp" />

```

```

<RelativeLayout
    android:id="@+id/rr"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@id/tv_text2">

```

```

<LinearLayout
    android:id="@+id/ll"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:gravity="center"
    android:orientation="vertical">

```

```

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:fontFamily="@font/bungee_inline"

```

```
    android:text="Expense"
    android:textColor="@color/light_green"
    android:textSize="24sp" />
```

```
<TextView
    android:id="@+id/tv_income"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Rs. 10000.00"
    android:textColor="@color/light_green"
    android:textSize="24sp" />
```

```
</LinearLayout>
```

```
<ImageView
    android:id="@+id/iv_expensePie"
    android:layout_width="50dp"
    android:layout_height="50dp"
    android:layout_alignParentEnd="true"
    android:layout_centerVertical="true"
    android:layout_marginRight="16dp"
    android:src="@drawable/ic_baseline_pie_chart_24"
    app:tint="@color/purple_200" />
```

```
</RelativeLayout>
```

```
<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/rv_income"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/rr"
    android:layout_marginTop="14dp"
    android:scrollbars="horizontal"
    tools:listitem="@layout/layout_income_item2" />
```

```
</RelativeLayout>
```

### **income\_add\_litem.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="wrap_content"
    android:orientation="vertical"
    android:padding="10dp">
```

```
<LinearLayout
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_margin="8dp"
android:orientation="horizontal"
android:weightSum="5">
```

```
<TextView
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginLeft="8dp"
    android:layout_weight="2"
    android:text="Amount: "
    android:textColor="@color/textColor"
    android:textSize="20sp" />
```

```
<EditText
    android:id="@+id/et_incomeAmount"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginLeft="8dp"
    android:layout_marginRight="8dp"
    android:layout_weight="3"
    android:hint="amount"
    android:inputType="number"
    android:textColor="@color/textColor"
    android:textSize="20sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="8dp"
    android:orientation="horizontal"
    android:weightSum="5">
```

```
<TextView
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginLeft="8dp"
    android:layout_weight="2"
    android:text="Type: "
    android:textColor="@color/textColor"
    android:textSize="20sp" />
```

```
<EditText
```

```
    android:id="@+id/et_incomeType"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginLeft="8dp"
    android:layout_marginRight="8dp"
    android:layout_weight="3"
    android:hint="type"
    android:textColor="@color/textColor"
    android:textSize="20sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="8dp"
    android:orientation="horizontal"
    android:weightSum="5">
```

```
    <TextView
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="8dp"
        android:layout_weight="2"
        android:text="Note: "
        android:textColor="@color/textColor"
        android:textSize="20sp" />
```

```
    <EditText
        android:id="@+id/et_incomeNote"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="8dp"
        android:layout_marginRight="8dp"
        android:layout_weight="3"
        android:hint="note"
        android:textColor="@color/textColor"
        android:textSize="20sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="8dp"
    android:orientation="horizontal">
```

```

<Button
    android:id="@+id/btn_cancel"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_gravity="bottom"
    android:layout_marginLeft="8dp"
    android:layout_marginRight="16dp"
    android:layout_weight="1"
    android:background="@drawable/bg_rounded_input_field"
    android:text="Cancel"
    android:textAllCaps="false"
    android:textColor="@color/white"
    android:textSize="16sp" />

```

```

<Button
    android:id="@+id/btn_save"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_gravity="bottom"
    android:layout_marginLeft="16dp"
    android:layout_marginRight="8dp"
    android:layout_weight="1"
    android:background="@drawable/bg_rounded_input_field"
    android:text="Save"
    android:textAllCaps="false"
    android:textColor="@color/white"
    android:textSize="16sp" />

```

```

</LinearLayout>

```

```

</LinearLayout>

```

## JAVA Code:

### MainActivity.java

```

package com.example.expensetrackersystem;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import com.example.expensetrackersystem.fragments.Dashboard;

```

```

import com.example.expensetrackersystem.fragments.Expense;
import com.example.expensetrackersystem.fragments.Income;
import com.google.android.material.bottomnavigation.BottomNavigationView;

public class MainActivity extends AppCompatActivity implements
BottomNavigationView.OnNavigationItemSelectedListener {
    BottomNavigationView bottomNavigationView;

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

        bottomNavigationView = findViewById(R.id.bottomNavigationView);

        bottomNavigationView.setOnNavigationItemSelectedListener(this);
        bottomNavigationView.setSelectedItemId(R.id.dashboard);

    }

    Dashboard dashboardFragment = new Dashboard();
    Expense expenseFragment = new Expense();
    Income incomeFragment = new Income();

    @Override
    public boolean onNavigationItemSelectedListener(@NonNull MenuItem item) {

        switch (item.getItemId()) {
            case R.id.income:
                getSupportFragmentManager().beginTransaction().replace(R.id.flFragment,
incomeFragment).commit();
                return true;

            case R.id.dashboard:
                getSupportFragmentManager().beginTransaction().replace(R.id.flFragment,
dashboardFragment).commit();
                return true;

            case R.id.expense:
                getSupportFragmentManager().beginTransaction().replace(R.id.flFragment,
expenseFragment).commit();
                return true;
        }
        return false;
    }
}

```



## SignUpActivity.java

```
package com.example.expensetrackersystem;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class SignUpActivity extends AppCompatActivity {

    EditText username, password, repassword;
    Button signup, signin;
    DatabaseHelper DB;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_sign_up);

        username = (EditText) findViewById(R.id.username);
        password = (EditText) findViewById(R.id.password);
        repassword = (EditText) findViewById(R.id.repassword);
        signup = (Button) findViewById(R.id.btnsignup);
        signin = (Button) findViewById(R.id.btnsignin);
        DB = new DatabaseHelper(this);

        signup.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String user = username.getText().toString();
                String pass = password.getText().toString();
                String repass = repassword.getText().toString();

                if(user.equals("")||pass.equals("")||repass.equals(""))
                    Toast.makeText(SignUpActivity.this, "Please enter all the fields",
Toast.LENGTH_SHORT).show();
                else{
                    if(pass.equals(repass)){
                        Boolean checkuser = DB.checkusername(user);
                        if(checkuser==false){
                            Boolean insert = DB.insertData(user, pass);
                            if(insert==true){
                                Toast.makeText(SignUpActivity.this, "Registered successfully",
Toast.LENGTH_SHORT).show();
```

```

                Intent intent = new Intent(getApplicationContext(), LoginActivity.class);
                startActivity(intent);
            } else {
                Toast.makeText(SignUpActivity.this, "Registration failed",
Toast.LENGTH_SHORT).show();
            }
        }
    } else {
        Toast.makeText(SignUpActivity.this, "User already exists! please sign in",
Toast.LENGTH_SHORT).show();
    }
} else {
    Toast.makeText(SignUpActivity.this, "Passwords not matching",
Toast.LENGTH_SHORT).show();
}
} }
});

signin.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(getApplicationContext(), LoginActivity.class);
        startActivity(intent);
    }
});
}
}

```

### **LoginActivity.java**

```

package com.example.expensetrackersystem;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class LoginActivity extends AppCompatActivity {
    EditText username, password;
    Button btnlogin;
    DatabaseHelper DB;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}

```

```

setContentView(R.layout.activity_login);

username = (EditText) findViewById(R.id.username1);
password = (EditText) findViewById(R.id.password1);
btnlogin = (Button) findViewById(R.id.btnsignin1);
DB = new DatabaseHelper(this);

btnlogin.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        String user = username.getText().toString();
        String pass = password.getText().toString();

        if(user.equals("")||pass.equals(""))
            Toast.makeText(LoginActivity.this, "Please enter all the fields",
Toast.LENGTH_SHORT).show();
        else{
            Boolean checkuserpass = DB.checkusernamepassword(user, pass);
            if(checkuserpass==true){
                Toast.makeText(LoginActivity.this, "Sign in successfull",
Toast.LENGTH_SHORT).show();
                Intent intent = new Intent(getApplicationContext(), MainActivity.class);
                startActivity(intent);
            }else{
                Toast.makeText(LoginActivity.this, "Invalid Credentials",
Toast.LENGTH_SHORT).show();
            }
        }
    }
});
}
}

```

### **PieChartIncome.java**

```

package com.example.expensetrackersystem;

import android.graphics.Color;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
import com.example.expensetrackersystem.model.incomeModel;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import lecho.lib.hellocharts.model.PieChartData;
import lecho.lib.hellocharts.model.SliceValue;

```

```

import lecho.lib.hellocharts.view.PieChartView;

public class PieChartIncome extends AppCompatActivity {

    private List<String> xData = new ArrayList<>();

    ArrayList pieEntries;

    private DatabaseHandler databaseHandlerExpense;

    HashMap<String, String> map;

    PieChartView pieChartView;
    List<SliceValue> pieData;

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

        pieChartView = findViewById(R.id.chart);

        databaseHandlerExpense = new DatabaseHandler(PieChartIncome.this);

        addData();
        getEntries();
        PieChartData pieChartData = new PieChartData(pieData);
        pieChartData.setHasLabels(true).setValueLabelTextSize(14);

        pieChartData.setHasCenterCircle(true).setCenterText1("Income").setCenterText1FontSize(20)
        .setCenterText1Color(Color.parseColor("#0097A7"));
        pieChartView.setPieChartData(pieChartData);

    }

    private void addData() {
        List<incomeModel> expenseModelList = databaseHandlerExpense.getAllIncome();

        for (incomeModel model : expenseModelList) {
            xData.add(model.getType());
        }

        map = new HashMap<>();
        for (incomeModel model : expenseModelList) {
            int amount = Integer.parseInt(model.getAmount());
            if (map.containsKey(model.getType())) {

```

```

        int a = Integer.parseInt(map.get(model.getType()));
        map.put(model.getType(), String.valueOf(a + amount));
    } else {
        map.put(model.getType(), model.getAmount());
    }
}
}

private void getEntries() {
    pieEntries = new ArrayList<>();
    int i = 0;

    pieData = new ArrayList<>();

    ArrayList<Integer> colors = new ArrayList<Integer>();
    colors.add(Color.MAGENTA);
    colors.add(Color.BLUE);
    colors.add(Color.YELLOW);
    colors.add(Color.RED);
    colors.add(Color.GREEN);

    for (String type : xData) {
        pieData.add(new SliceValue(Float.parseFloat(map.get(type)),
colors.get(i5)).setLabel(type));
        i++;
    }
}
}
}

```

## Chapter 6

### Conclusion and Scope for Future Work

**Conclusion:** The reminder app is an essential and highly practical tool that enhances productivity, time management, and overall organization for users in their personal and professional lives. By allowing users to set reminders for various tasks, appointments, and events, the app ensures that important events are not forgotten and deadlines are met. Throughout its development, the reminder app has undergone extensive testing and user feedback iterations, resulting in a robust, user-friendly, and reliable application.

**Scope:** The scope of the reminder app is to provide users with a seamless and intuitive platform to manage their reminders effectively. Key features of the app include:

1. **Reminder Creation:** Users can easily create reminders with customizable options such as title, date, time, repeat frequency, and notification preferences.
2. **Calendar Integration:** The app integrates with the user's device calendar, ensuring that all reminders are synchronized with their existing schedule.
3. **Multiple Categories:** Users can organize their reminders into different categories, such as work, personal, health, or shopping, to maintain a more structured approach.
4. **Notification System:** The app provides timely notifications for upcoming reminders, helping

### **Bibliography**

1. <https://stackoverflow.com>
2. <https://firebase.google.com>