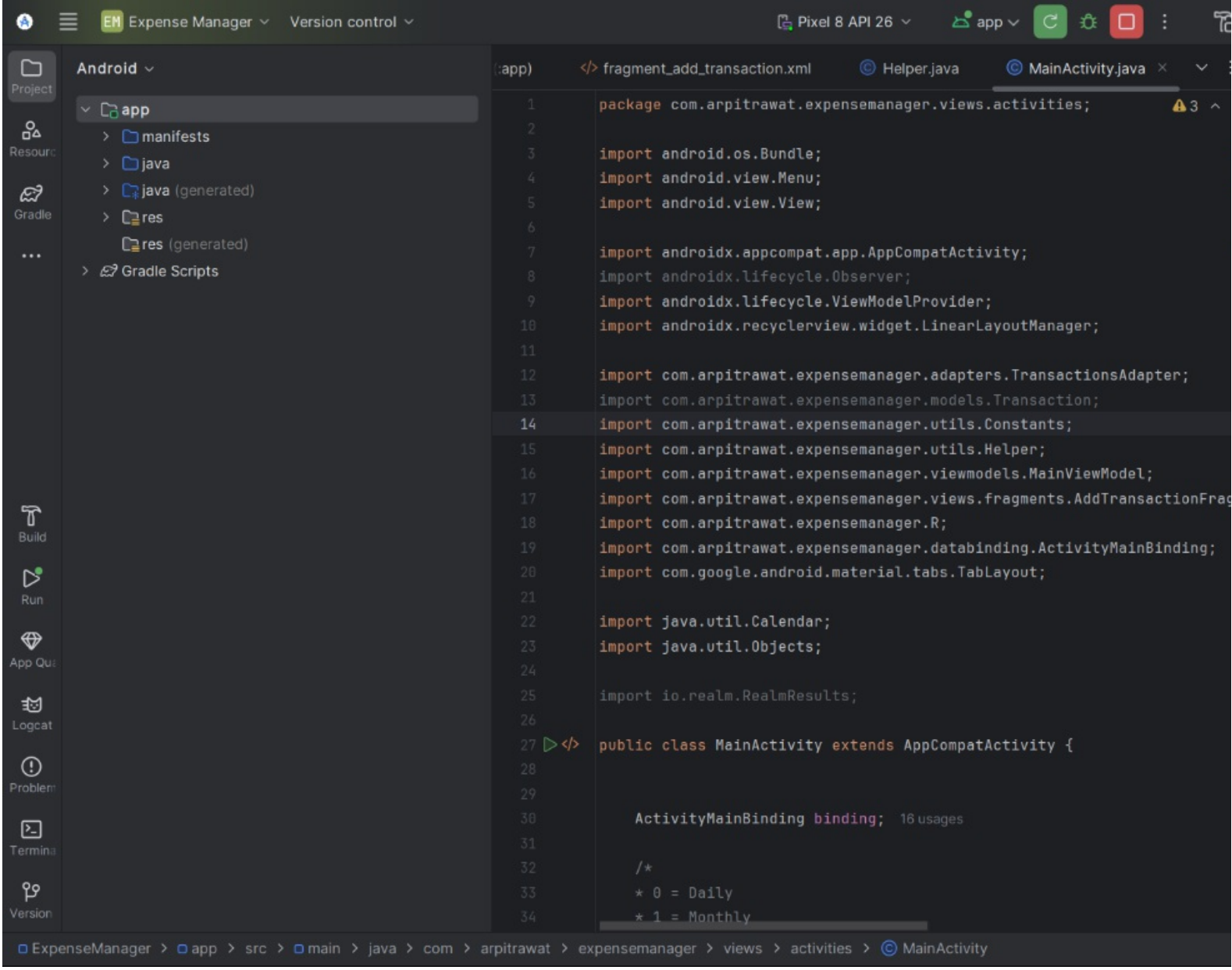
MainActivity.xml

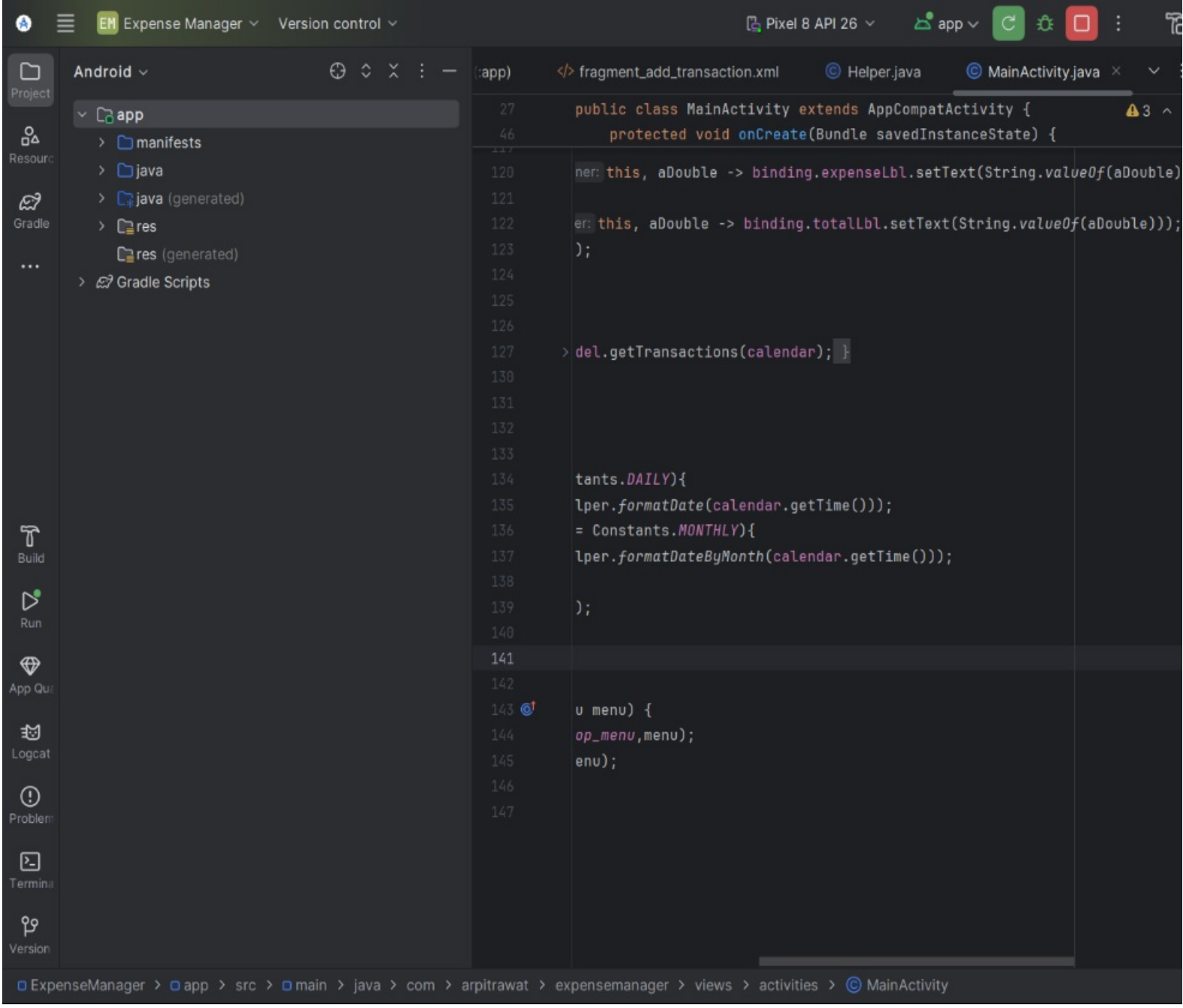
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/main"
android:layout_width="match_parent"
android:layout_height="wrap_content"
tools:context=".views.activities.MainActivity">

<com.google.android.material.appbar.MaterialToolbar
android:id="@+id/Toolbar"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:background="#09B3FF"
android:minHeight="?attr/actionBarSize"
android:theme="?attr/actionBarTheme"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:titleTextColor="@color/black"/>

<LinearLayout
android:id="@+id/linearLayout2"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:background="#09B3FF"
android:orientation="horizontal"
android:padding="15dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/Toolbar">

<ImageView
android:id="@+id/perviousDateBtn"
android:layout_width="19dp"
android:layout_height="23dp"
app:srcCompat="@drawable/previous"
tools:ignore="ContentDescription" />

<TextView
android:id="@+id/currentDate"
android:layout_width="0dp"
android:layout_height="wrap_content"
android:layout_weight="1"
android:gravity="center"
android:text="Sep 2, 2024"
android:textColor="@color/black"
android:textColorLink="#09B1FD"
android:textSize="16sp"
tools:ignore="HardcodedText" />

<ImageView
android:id="@+id/nextDateBtn"
android:layout_width="19dp"
android:layout_height="22dp"
app:srcCompat="@drawable/next"
tools:ignore="ContentDescription" />
</LinearLayout>

<com.google.android.material.tabs.TabLayout
android:id="@+id/tabLayout"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:background="#09B2FE"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/linearLayout2"
```

```
app:tabIndicatorColor="#00838F"
app:tabMode="fixed"
app:tabTextColor="@color/white">

<com.google.android.material.tabs.TabItem
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Daily"
tools:ignore="HardcodedText" />

<com.google.android.material.tabs.TabItem
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Monthly"
tools:ignore="HardcodedText" />

<com.google.android.material.tabs.TabItem
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Calendar"
tools:ignore="HardcodedText" />

<com.google.android.material.tabs.TabItem
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Summary"
tools:ignore="HardcodedText" />

<com.google.android.material.tabs.TabItem
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Notes"
tools:ignore="HardcodedText" />
</com.google.android.material.tabs.TabLayout>

<LinearLayout
android:id="@+id/linearLayout7"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="horizontal"
android:padding="5dp"
app:layout_constraintTop_toBottomOf="@+id/tabLayout"
tools:ignore="DisableBaselineAlignment">

<LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_weight="1"
android:gravity="center"
android:orientation="vertical">

<TextView
android:id="@+id/textView8"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:gravity="center"
android:text="Income"
tools:ignore="HardcodedText" />

<TextView
android:id="@+id/incomeLbl"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="3dp"
android:gravity="center"
android:text="0.0"
android:textColor="#00FF00"
tools:ignore="HardcodedText" />
</LinearLayout>
```

```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_weight="1"
android:gravity="center"
android:orientation="vertical">

<TextView
android:id="@+id/textView6"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:gravity="center"
android:text="Expense"
tools:ignore="HardcodedText" />

<TextView
android:id="@+id/expenseLbl"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="3dp"
android:gravity="center"
android:text="0.0"
android:textColor="#FF0000"
tools:ignore="HardcodedText" />
</LinearLayout>

<LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_weight="1"
android:gravity="center"
android:orientation="vertical">

<TextView
android:id="@+id/textView3"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:gravity="center"
android:text="Total"
tools:ignore="HardcodedText" />

<TextView
android:id="@+id/totalLbl"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="3dp"
android:gravity="center"
android:text="0.0"
tools:ignore="HardcodedText" />

</LinearLayout>

</LinearLayout>

<com.google.android.material.bottomnavigation.BottomNavigationView
android:id="@+id/bottomNavigationView"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="540dp"
android:layout_weight="1"
android:background="#09B2FE"
app:itemIconTint="@color/black"
app:itemTextColor="@color/white"
app:labelVisibilityMode="labeled"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/linearLayout7"
app:menu="@menu/bottom_menu" />
```

```
<com.google.android.material.floatingactionbutton.FloatingActionButton
android:id="@+id/FloatingActionButton"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginEnd="8dp"
android:layout_marginBottom="8dp"
android:clickable="true"
app:backgroundTint="#09B1FD"
app:layout_constraintBottom_toTopOf="@+id/bottomNavigationView"
app:layout_constraintEnd_toEndOf="parent"
app:srcCompat="@drawable/plus"
tools:ignore="ContentDescription,KeyboardInaccessibleWidget" />

<androidx.recyclerview.widget.RecyclerView
android:id="@+id/transactionsList"
android:layout_width="0dp"
android:layout_height="0dp"
app:layout_constraintBottom_toTopOf="@+id/bottomNavigationView"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/linearLayout7"
tools:listitem="@layout/row_transaction"/>

<ImageView
android:id="@+id/nodata"
android:layout_width="100dp"
android:layout_height="100dp"
android:alpha="0.5"
android:visibility="gone"
app:layout_constraintBottom_toTopOf="@+id/bottomNavigationView"
app:layout_constraintEnd_toEndOf="@+id/transactionsList"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/linearLayout7"
app:srcCompat="@drawable/no_data"
tools:ignore="ContentDescription" />

</androidx.constraintlayout.widget.ConstraintLayout>
```


Expense Manager
Version control
Pixel 8 API 26
app
Android
app
manifests
java
java (generated)
res
res (generated)
Gradle Scripts
fragment_add_transaction.xml
Helper.java
MainActivity.java
package com.arpitrawat.expensemanager.views.activities;
import android.os.Bundle;
import android.view.Menu;
import android.view.View;
import androidx.appcompat.app.AppCompatActivity;
import androidx.lifecycle.Observer;
import androidx.lifecycle.ViewModelProvider;
import androidx.recyclerview.widget.LinearLayoutManager;
import com.arpitrawat.expensemanager.adapters.TransactionsAdapter;
import com.arpitrawat.expensemanager.models.Transaction;
import com.arpitrawat.expensemanager.utils.Constants;
import com.arpitrawat.expensemanager.utils.Helper;
import com.arpitrawat.expensemanager.viewmodels.MainViewModel;
import com.arpitrawat.expensemanager.views.fragments.AddTransactionFrag
import com.arpitrawat.expensemanager.R;
import com.arpitrawat.expensemanager.databinding.ActivityMainBinding;
import com.google.android.material.tabs.TabLayout;
import java.util.Calendar;
import java.util.Objects;
import io.realm.RealmResults;
public class MainActivity extends AppCompatActivity {
ActivityMainBinding binding; 16 usages
/*
* 0 = Daily
* 1 = Monthly
ExpenseManager
app
src
main
java
com
arpitrawat
expensemanager
views
activities
MainActivity

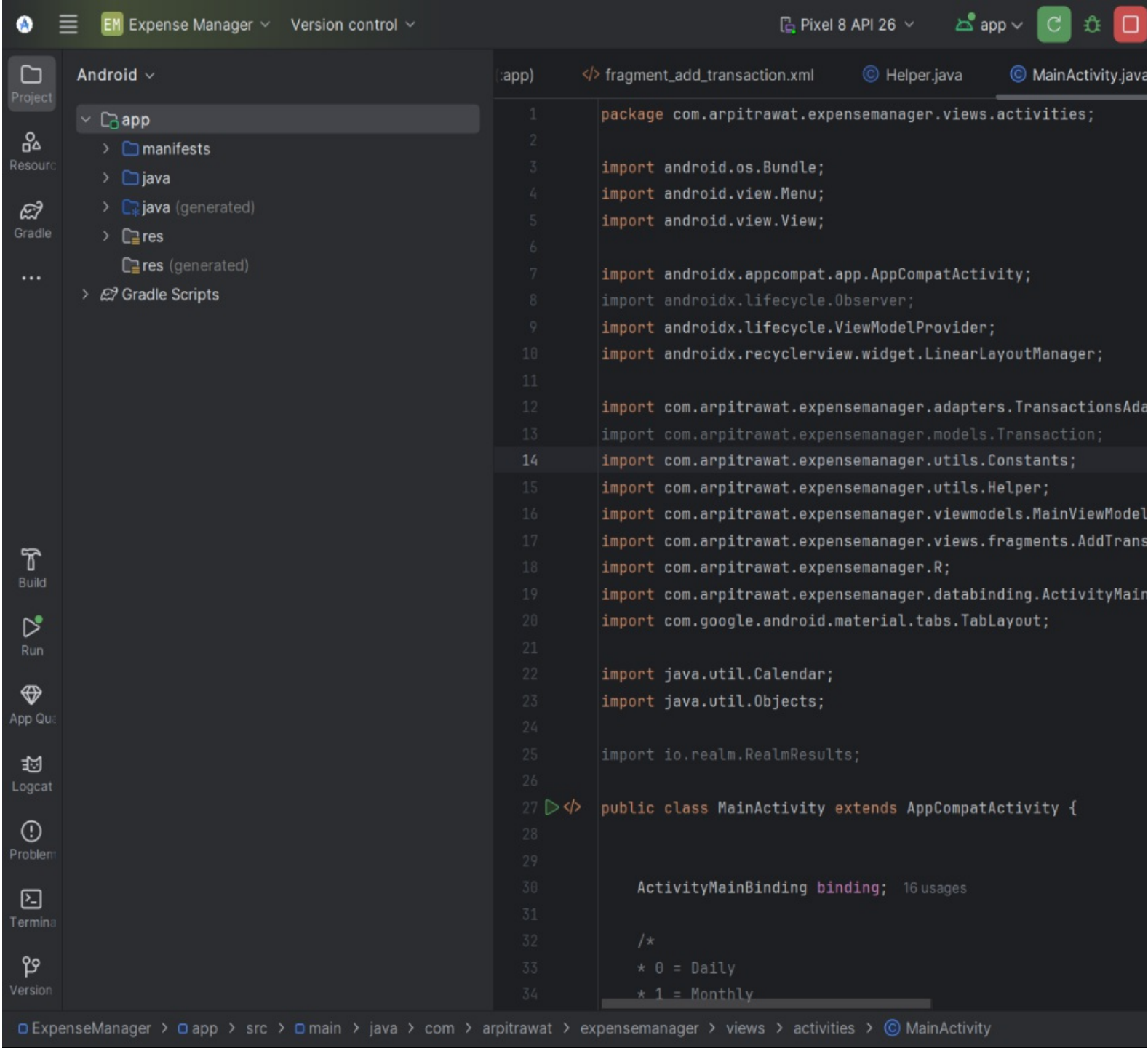


MainActivity.java

```
package com.arpitrawat.expensemanager.views.activities;

import android.os.Bundle;
import android.view.Menu;
import android.view.View;

import androidx.appcompat.app.AppCompatActivity;
import androidx.lifecycle.Observer;
import androidx.lifecycle.ViewModelProvider;
import androidx.recyclerview.widget.LinearLayoutManager;

import com.arpitrawat.expensemanager.adapters.TransactionsAdapter;
import com.arpitrawat.expensemanager.models.Transaction;
import com.arpitrawat.expensemanager.utils.Constants;
import com.arpitrawat.expensemanager.utils.Helper;
import com.arpitrawat.expensemanager.viewmodels.MainViewModel;
import com.arpitrawat.expensemanager.views.fragments.AddTransactionFragment;
import com.arpitrawat.expensemanager.R;
import com.arpitrawat.expensemanager.databinding.ActivityMainBinding;
import com.google.android.material.tabs.TabLayout;

import java.util.Calendar;
import java.util.Objects;

import io.realm.RealmResults;
```

```
public class MainActivity extends AppCompatActivity {


ActivityMainBinding binding;

/*
* 0 = Daily
* 1 = Monthly
* 2 = Calendar
* 3 = Summary
* 4 = Notes
*/

Calendar calendar;


public MainViewModel viewModel;

@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
binding = ActivityMainBinding.inflate(getLayoutInflater());
setContentView(binding.getRoot());

viewModel = new ViewModelProvider(this).get(MainViewModel.class);


setSupportActionBar(binding.Toolbar);
Objects.requireNonNull(getSupportActionBar()).setTitle("Transactions");

Constants.setCategories();

calendar = Calendar.getInstance();
updateDate();

binding.nextDateBtn.setOnClickListener(c->{
if (Constants.SELECTED_TAB == Constants.DAILY) {
calendar.add(Calendar.DATE, 1);
}else if (Constants.SELECTED_TAB == Constants.MONTHLY){
calendar.add(Calendar.MONTH, 1);
}
updateDate();
});

binding.perviousDateBtn.setOnClickListener(c->{
if (Constants.SELECTED_TAB == Constants.DAILY) {
calendar.add(Calendar.DATE, -1);
}else if (Constants.SELECTED_TAB == Constants.MONTHLY){
calendar.add(Calendar.MONTH, -1);
}
updateDate();
});

binding.FloatingActionButton.setOnClickListener(c-> new AddTransactionFragment().show(getSupportFragmentManager(), null));

binding.transactionsList.setLayoutManager(new LinearLayoutManager(this));

viewModel.transactions.observe(this, transactions -> {
TransactionsAdapter transactionsAdapter = new TransactionsAdapter(MainActivity.this, transactions);
binding.transactionsList.setAdapter(transactionsAdapter);
if(!transactions.isEmpty()) {
binding.nodata.setVisibility(View.GONE);
}else {
binding.nodata.setVisibility(View.VISIBLE);
}
});

binding.tabLayout.addOnTabSelectedListener(new TabLayout.OnTabSelectedListener() {
@Override
```

```
public void onTabSelected(TabLayout.Tab tab) {
if (Objects.equals(tab.getText(), "Monthly")){
Constants.SELECTED_TAB = 1;
updateDate();
}else if (Objects.equals(tab.getText(), "Daily")){
Constants.SELECTED_TAB = 0;
updateDate();
}
}

@Override
public void onTabUnselected(TabLayout.Tab tab) {

}

@Override
public void onTabReselected(TabLayout.Tab tab) {

}
});


viewModel.totalIncome.observe(this, aDouble -> binding.incomeLbl.setText(String.valueOf(aDouble)));

viewModel.totalExpense.observe(this, aDouble -> binding.expenseLbl.setText(String.valueOf(aDouble)));

viewModel.totalAmount.observe(this, aDouble -> binding.totalLbl.setText(String.valueOf(aDouble)));
viewModel.getTransactions(calendar);

}

public void getTransactions(){
viewModel.getTransactions(calendar);
}


void updateDate(){

if (Constants.SELECTED_TAB == Constants.DAILY){
binding.currentDate.setText(Helper.formatDate(calendar.getTime()));
}else if (Constants.SELECTED_TAB == Constants.MONTHLY){
binding.currentDate.setText(Helper.formatDateByMonth(calendar.getTime()));
}
viewModel.getTransactions(calendar);
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
getMenuInflater().inflate(R.menu.top_menu,menu);
return super.onCreateOptionsMenu(menu);
}


}
```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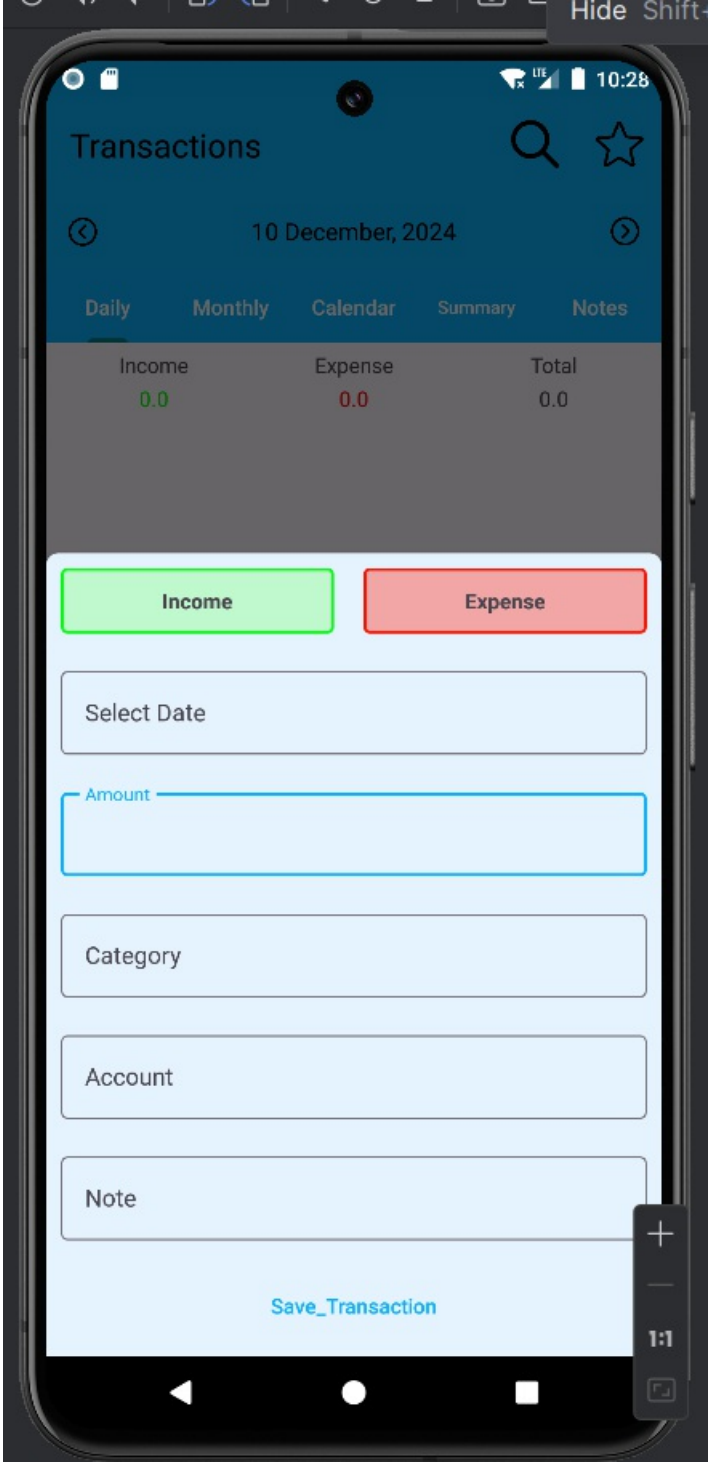
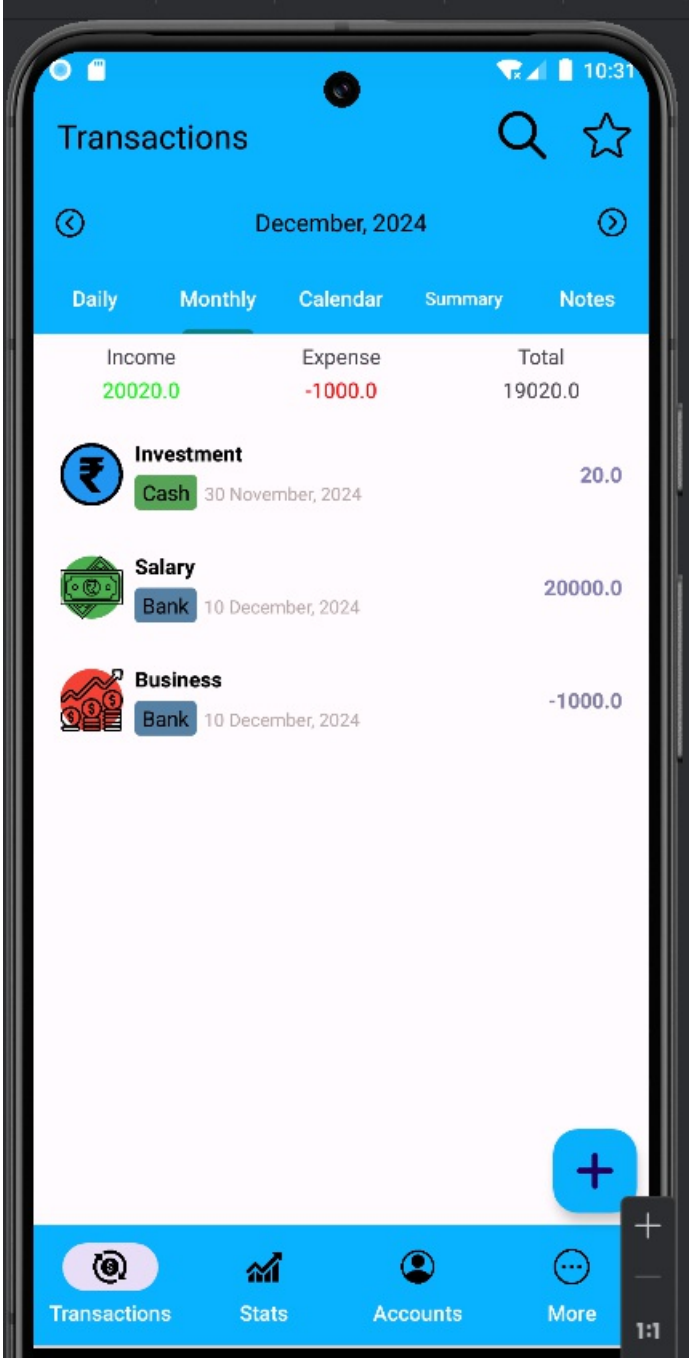
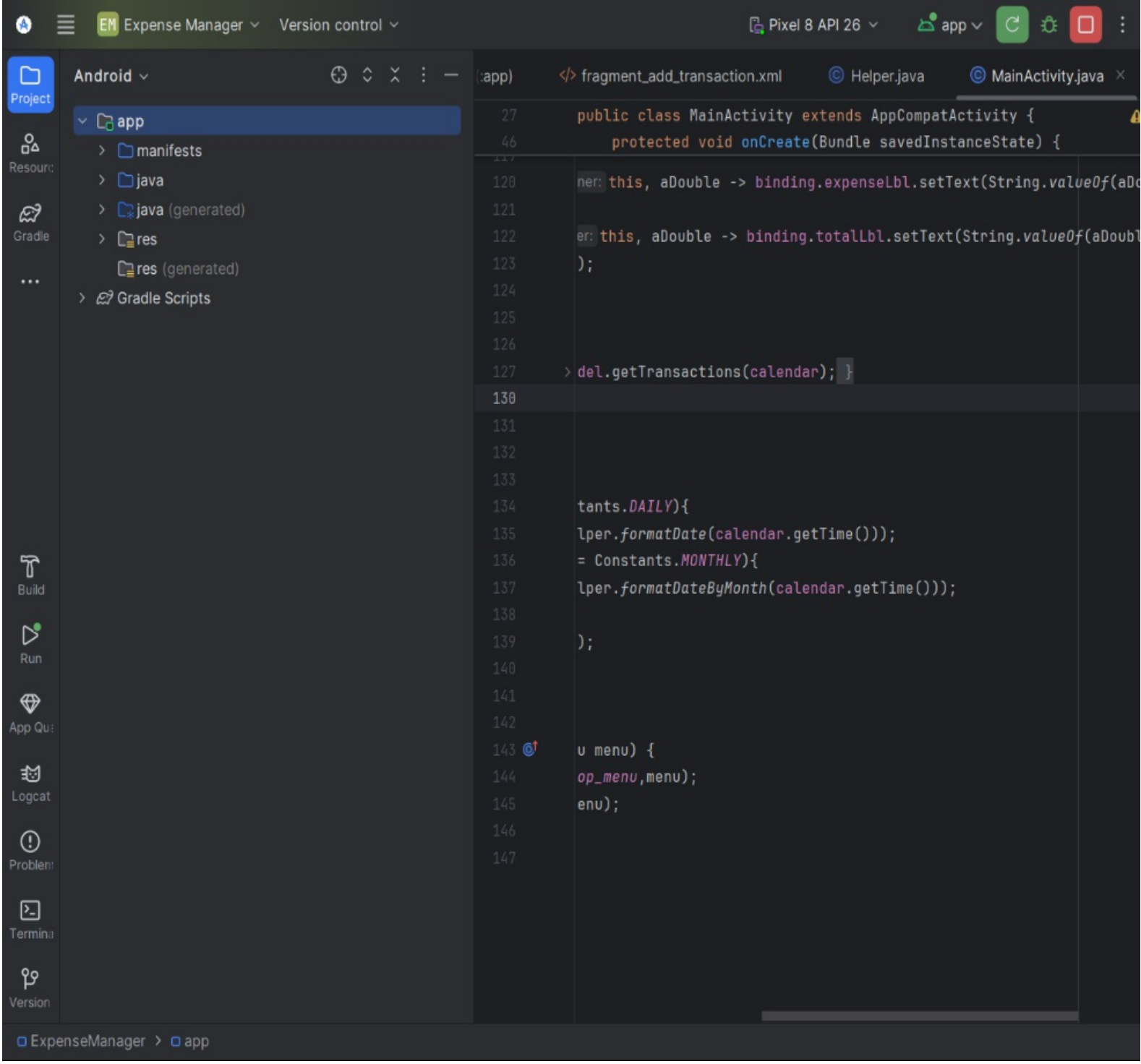
import android.os.Bundle;
import android.view.Menu;
import android.view.View;
import androidx.appcompat.app.AppCompatActivity;
import androidx.lifecycle.Observer;
import androidx.lifecycle.ViewModelProvider;
import androidx.recyclerview.widget.LinearLayoutManager;
import com.arpitrawat.expensemanager.adapters.TransactionsAda
import com.arpitrawat.expensemanager.models.Transaction;
import com.arpitrawat.expensemanager.utils.Constants;
import com.arpitrawat.expensemanager.utils.Helper;
import com.arpitrawat.expensemanager.viewmodels.MainViewModel
import com.arpitrawat.expensemanager.views.fragments.AddTrans
import com.arpitrawat.expensemanager.R;
import com.arpitrawat.expensemanager.databinding.ActivityMain
import com.google.android.material.tabs.TabLayout;
import java.util.Calendar;
import java.util.Objects;
import io.realm.RealmResults;
public class MainActivity extends AppCompatActivity {
ActivityMainBinding binding; 16 usages
/*
* 0 = Daily
* 1 = Monthly
ExpenseManager › app › src › main › java › com › arpitrawat › expensemanager › views › activities › MainActivity

OUTPUT:-


Hide Shift-
10:28
Transactions
10 December, 2024
Daily
Monthly
Calendar
Summary
Notes
Income
Expense
Total
0.0
0.0
0.0
Income
Expense
Select Date
Amount
Category
Account
Note
Save_Transaction
1:1


10:31
Transactions
December, 2024
Daily
Monthly
Calendar
Summary
Notes
Income
Expense
Total
20020.0
-1000.0
19020.0
Investment
Cash
30 November, 2024
20.0
Salary
Bank
10 December, 2024
20000.0
Business
Bank
10 December, 2024
-1000.0
Transactions
Stats
Accounts
More
1:1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MainActivity.java
public class MainActivity extends AppCompatActivity {
protected void onCreate(Bundle savedInstanceState) {
ner: this, aDouble -> binding.expenseLbl.setText(String.valueOf(aDo
er: this, aDouble -> binding.totalLbl.setText(String.valueOf(aDoubl
);
del.getTransactions(calendar); }
tants.DAILY){
lper.formatDate(calendar.getTime()));
= Constants.MONTHLY){
lper.formatDateByMonth(calendar.getTime()));
);
u menu) {
op_menu,menu);
enu);
Project
Resourc
Gradle
Build
Run
App Qu
Logcat
Problem
Termina
Version
ExpenseManager
app