Money Matters: A Personal Finance Management App

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DESCRIPTION

- The Expense Tracker App empowers users to take control of their finances by providing tools for easy tracking, budget setting, and detailed analysis, fostering financial discipline and informed decision-making.
- Materials: Build an Expense Tracker App with Figma for design, React Native or Flutter for frontend, Firebase or PostgreSQL for backend, and Firebase Authentication for secure login.
- Resources: Build the Expense Tracker App in Android Studio with Kotlin/Java, Firebase for backend and authentication, ExchangeRate-API for currency conversion, and Chart.js for analytics. Distribute on Google Play and manage tasks with Trello or Jira.
- Usage for expense: The Expense Tracker App helps users log and categorize expenses, set budgets, and track spending. It provides visual reports, supports multiple currencies, syncs data to the cloud, and allows report export, helping users manage finances and make informed decisions.
- Mobile Apps: Expense Tracker App can stand out with personalized tracking, real-time currency conversion, dynamic reports via Chart.js, and a simple UI. It can feature cloud syncing through Firebase, push notifications for budget alerts, and secure authentication, offering a competitive edge over apps like Mint and YNAB.
- Online Platforms: Platforms like Spendee, Expensify, Wally, and EveryDollar offer expense tracking, budgeting, and financial reporting, providing valuable insights for your Expense Tracker App.

Main Activity.java:

package com.example.expensestracker

import android.annotation.SuppressLint import android.content.Intent import android.os.Bundle import androidx.activity.ComponentActivity import androidx.activity.compose.setContent import androidx.compose.foundation.lmage import androidx.compose.foundation.layout.* import androidx.compose.material.* import androidx.compose.runtime.* import androidx.compose.ui.Alignment

import androidx.compose.ui.Modifier import androidx.compose.ui.graphics.Color import androidx.compose.ui.res.painterResource import androidx.compose.ui.text.font.FontWeight import androidx.compose.ui.text.style.TextAlign import androidx.compose.ui.tooling.preview.Preview import androidx.compose.ui.unit.dp import androidx.compose.ui.unit.sp import com.example.expensestracker.ui.theme.ExpensesTrackerTh eme

```
class MainActivity: ComponentActivity() {
@SuppressLint("UnusedMaterialScaffoldPaddingParameter")
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContent {
      Scaffold(
        // in scaffold we are specifying top bar.
        bottomBar = {
          // inside top bar we are specifying
          // background color.
           BottomAppBar(backgroundColor =
Color(0xFFadbef4),
             modifier = Modifier.height(80.dp),
             // along with that we are specifying
             // title for our top bar.
```

```
content = {
  Spacer(modifier = Modifier.width(15.dp))
  Button(
    onClick =
{startActivity(Intent(applicationContext,AddExpensesActivity::class.java))},
    colors = ButtonDefaults.buttonColors(backgroundColor = Color.White),
    modifier = Modifier. size(height = 55.dp, width = 110.dp)
    Text(
      text = "Add Expenses", color = Color.Black, fontSize = 14.sp,
      textAlign = TextAlign.Center
```

```
Spacer(modifier = Modifier.width(15.dp))
Button(
  onClick = {
    startActivity(
      Intent(
         applicationContext,
         ViewRecordsActivity::class.java
  colors = ButtonDefaults.buttonColors(backgroundColor = Color.White),
  modifier = Modifier. size(height = 55.dp, width = 110.dp)
  Text(
    text = "View Records", color = Color.Black, fontSize = 14.sp,
    textAlign = TextAlign.Center
```

```
MainPage()
@Composable
fun MainPage() {
 Column(
    modifier = Modifier.padding(20.dp).fillMaxSize(),
    verticalArrangement = Arrangement.Center,
    horizontalAlignment = Alignment.CenterHorizontally
    Text(text = "Welcome To Expense Tracker", fontSize = 42.sp, fontWeight = FontWeight.Bold,
    textAlign = TextAlign.Center)
    Image(painterResource(id = R.drawable.img_1), contentDescription ="", modifier = Modifier.size(height = 500.dp, width = 500.d
```

```
class SetLimitActivity: ComponentActivity() {
  private lateinit var expenseDatabaseHelper: ExpenseDatabaseHelper
  @SuppressLint("UnusedMaterialScaffoldPaddingParameter")
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    expenseDatabaseHelper = ExpenseDatabaseHelper(this)
    setContent {
      Scaffold(
        // in scaffold we are specifying top bar.
        bottomBar = {
          // inside top bar we are specifying
          // background color.
          BottomAppBar(backgroundColor = Color(0xFFadbef4),
             modifier = Modifier.height(80.dp),
            // along with that we are specifying
            // title for our top bar.
```

```
content = {
  Spacer(modifier = Modifier. width(15.dp))
  Button(
    onClick = {
      startActivity(
        Intent(
           applicationContext,
           AddExpensesActivity::class.java
    colors = ButtonDefaults.buttonColors(backgroundColor = Color.White),
    modifier = Modifier. size(height = 55.dp, width = 110.dp)
    Text(
      text = "Add Expenses", color = Color.Black, fontSize = 14.sp,
      textAlign = TextAlign.Center
  Spacer(modifier = Modifier.width(15.dp))
```

```
Button(
          onClick = {
           startActivity(
              Intent(
                applicationContext,
                SetLimitActivity::class.java
          colors = ButtonDefaults.buttonColors(backgroundColor = Color.White),
          modifier = Modifier. size(height = 55.dp, width = 110.dp)
         Text(
           text = "Set Limit", color = Color.Black, fontSize = 14.sp,
           textAlign = TextAlign.Center
       Spacer(modifier = Modifier.width(15.dp))
       Button(
         onClick = {
           startActivity(
              Intent(
                applicationContext,
                ViewRecordsActivity::class.java
          colors = ButtonDefaults.buttonColors(backgroundColor = Color.White),
          modifier = Modifier. size(height = 55.dp, width = 110.dp)
```

```
Button(onClick = {
  if (amount.isNotEmpty()) {
    val expense = Expense(
      id = null,
      amount = amount
    expenseDatabaseHelper.insertExpense(expense)
  Text(text = "Set Limit")
Text(
             text = "View Records", color = Color.Black, fontSize = 14.sp,
             textAlign = TextAlign.Center
```

```
Spacer(modifier = Modifier.height(10.dp))
     LazyRow(
     modifier = Modifier
        .fillMaxSize()
        .padding(top = 0.dp),
         horizontalArrangement = Arrangement.Start
    ) {
     item {
     LazyColumn {
         items(expense) { expense ->
           Column(
             Text("Remaining Amount: ${expense.amount}", fontWeight = FontWeight.Bold)
    Activity_main.xml:
    <?xml version="1.0" encoding="utf-8"?>
    <manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
      xmlns:tools="http://schemas.android.com/tools">
```

```
<application
  android:allowBackup="true"
  android:dataExtractionRules="@xml/data_extraction_rules"
  android:fullBackupContent="@xml/backup_rules"
  android:icon="@mipmap/ic_launcher"
  android:label="@string/app_name"
  android:supportsRtl="true"
  android:theme="@style/Theme.ExpensesTracker"
 tools:targetApi="31">
```

```
<activity
  android:name=".RegisterActivity"
  android:exported="false"
  android:label="@string/title_activity_register"
  android:theme="@style/Theme.ExpensesTracker" />
```

```
<activity
  android:name=".MainActivity"
  android:exported="false"
  android:label="MainActivity"
  android:theme="@style/Theme.ExpensesTracker" />
```

```
<activity
android:name=".ViewRecordsActivity"
android:exported="false"
android:label="@string/title_activity_view_records"
android:theme="@style/Theme.ExpensesTracker"/>
```

```
<activity
  android:name=".SetLimitActivity"
  android:exported="false"
  android:label="@string/title_activity_set_limit"
  android:theme="@style/Theme.ExpensesTracker" />
```

```
<activity
  android:name=".AddExpensesActivity"
  android:exported="false"
  android:label="@string/title_activity_add_expenses"
  android:theme="@style/Theme.ExpensesTracker" />
```

```
<activity
  android:name=".LoginActivity"
  android:exported="true"
  android:label="@string/app_name"
  android:theme="@style/Theme.ExpensesTracker">
```

OUTPUT:





