

MONEY MATTERS:PERSONAL FINANCE MANAGEMENT APP

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DESCRIPTION

A personal finance manager is a tool or app designed to help individuals track their income, expenses, and savings goals. It plays a crucial role in budgeting, providing real-time insights into spending habits and financial health.

Dashboard: This main feature provides users with an overview of their financial situation, displaying current balance, total income, total expenses, and any remaining budget for the month. Users can view spending categories (e.g., food, transportation, entertainment) at a glance, which helps in identifying spending patterns and controlling expenses.

Transaction Log: Similar to a scorebook, this section records each financial transaction. Users can add details such as the amount, category, date, and notes. Each transaction is documented meticulously, providing a detailed log of where money is spent or received.

Expense and Income Charts: To help visualize spending and income trends, charts and graphs offer a breakdown of expenses by category or income over time. This is like electronic scoring software in cricket, where data is automatically processed and displayed in a user-friendly manner, reducing errors and making budgeting more accessible.

Mobile Accessibility: Designed for easy access, this app can be used on mobile devices, allowing users to manage their finances on the go. The app includes customizable expense categories, budgeting tools, and the ability to generate reports that can be shared with others.

Online Synchronization: To enable backup and multi-device use, the app offers cloud sync options. This ensures data is always up-to-date and secure, enhancing the user experience by providing a seamless view of finances across devices.

Main Activity.kt:

```
package com.example.expensetracker

import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import androidx.lifecycle.ViewModelProvider
import androidx.recyclerview.widget.LinearLayoutManager
import com.example.expensetracker.databinding.ActivityMainBinding

class MainActivity : AppCompatActivity() {

    private lateinit var binding: ActivityMainBinding
    private lateinit var expenseViewModel: ExpenseViewModel

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        binding = ActivityMainBinding.inflate(layoutInflater)
        setContentView(binding.root)

        expenseViewModel =
            ViewModelProvider(this).get(ExpenseViewModel::class.java)
```

```
binding.recyclerView.layoutManager = LinearLayoutManager(this)
    val adapter = ExpenseAdapter()
    binding.recyclerView.adapter = adapter

    expenseViewModel.allExpenses.observe(this, { expenses ->
        expenses?.let { adapter.submitList(it) }
    })

    binding.addExpenseButton.setOnClickListener {
        val expenseName = binding.expenseNameInput.text.toString()
        val amount = binding.expenseAmountInput.text.toString().toDoubleOrNull()
        if (amount != null) {
            val newExpense = Expense(name = expenseName, amount = amount)
            expenseViewModel.insert(newExpense)
            clearInputs()
        }
    }
}

private fun clearInputs() {
    binding.expenseNameInput.text.clear()
    binding.expenseAmountInput.text.clear()
}
}
```

activity_main.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="match_parent"
    android:orientation="vertical"
    android:padding="16dp">

    <EditText
        android:id="@+id/expenseNameInput"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Expense Name"
        android:inputType="text" />

    <EditText
        android:id="@+id/expenseAmountInput"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Amount"
        android:inputType="numberDecimal" />
```

<Button

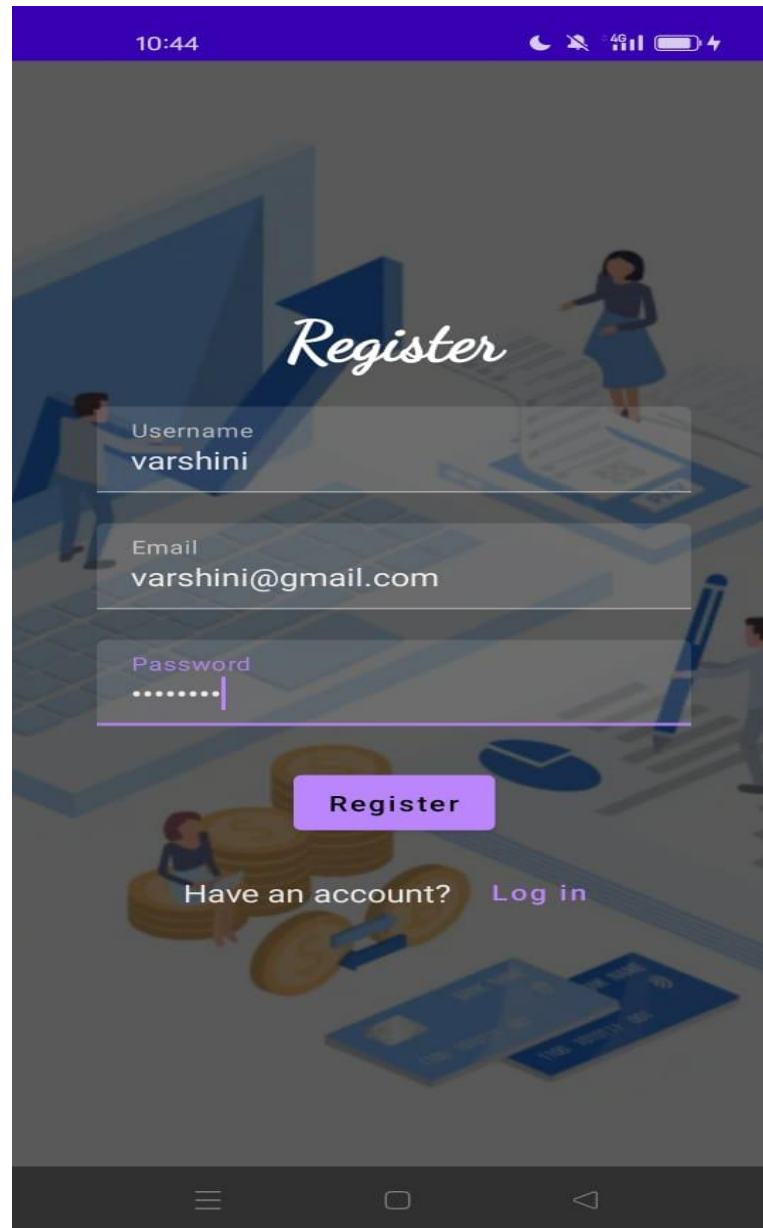
```
    android:id="@+id/addExpenseButton"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="Add Expense" />
```

<androidx.recyclerview.widget.RecyclerView

```
    android:id="@+id/recyclerView"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="16dp" />
```

</LinearLayout>

OUTPUT:



10:44

Register

Username
varshini

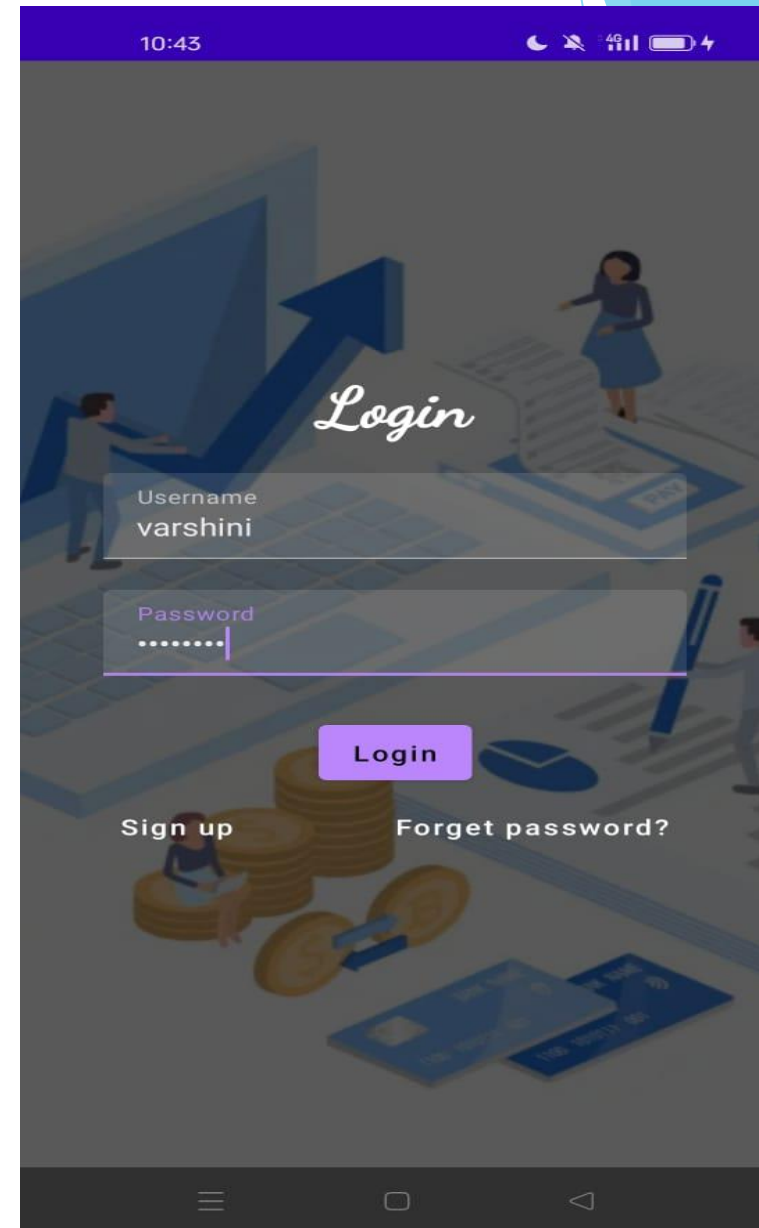
Email
varshini@gmail.com

Password
.....

Register

Have an account? [Log in](#)

This is a mobile app mockup for a registration screen. The background is a dark blue isometric illustration featuring a large upward-pointing arrow, a woman in a blue dress, a man, and stacks of gold coins. The screen has a purple status bar at the top showing the time 10:44 and various icons. The main title 'Register' is in a white script font. Below it are three input fields for Username (filled with 'varshini'), Email (filled with 'varshini@gmail.com'), and Password (filled with seven dots). A purple 'Register' button is positioned below the password field. At the bottom, there is a link 'Have an account? Log in' where 'Log in' is a purple link. The bottom of the screen shows a standard Android navigation bar.



10:43

Login

Username
varshini

Password
.....

Login

[Sign up](#) [Forget password?](#)

This is a mobile app mockup for a login screen. The background is a dark blue isometric illustration featuring a large upward-pointing arrow, a woman in a blue dress, a man, and stacks of gold coins. The screen has a purple status bar at the top showing the time 10:43 and various icons. The main title 'Login' is in a white script font. Below it are two input fields: Username (filled with 'varshini') and Password (filled with seven dots). A purple 'Login' button is positioned below the password field. At the bottom, there are two links: 'Sign up' and 'Forget password?'. The bottom of the screen shows a standard Android navigation bar.

10:45



Welcome To Expense Tracker



Add
Expenses

Set Limit

View
Record



10:45



Monthly Amount Limit

Set Amount Limit
5000

Set Limit

Add
Expenses

Set Limit

View
Record



10:45

4G

Item Name

Item Name
OnePlus Nord buds

Quantity of item

Quantity
1

Cost of the item

Cost
1700

Submit

Add Expenses

Set Limit

View Record

10:48

4G

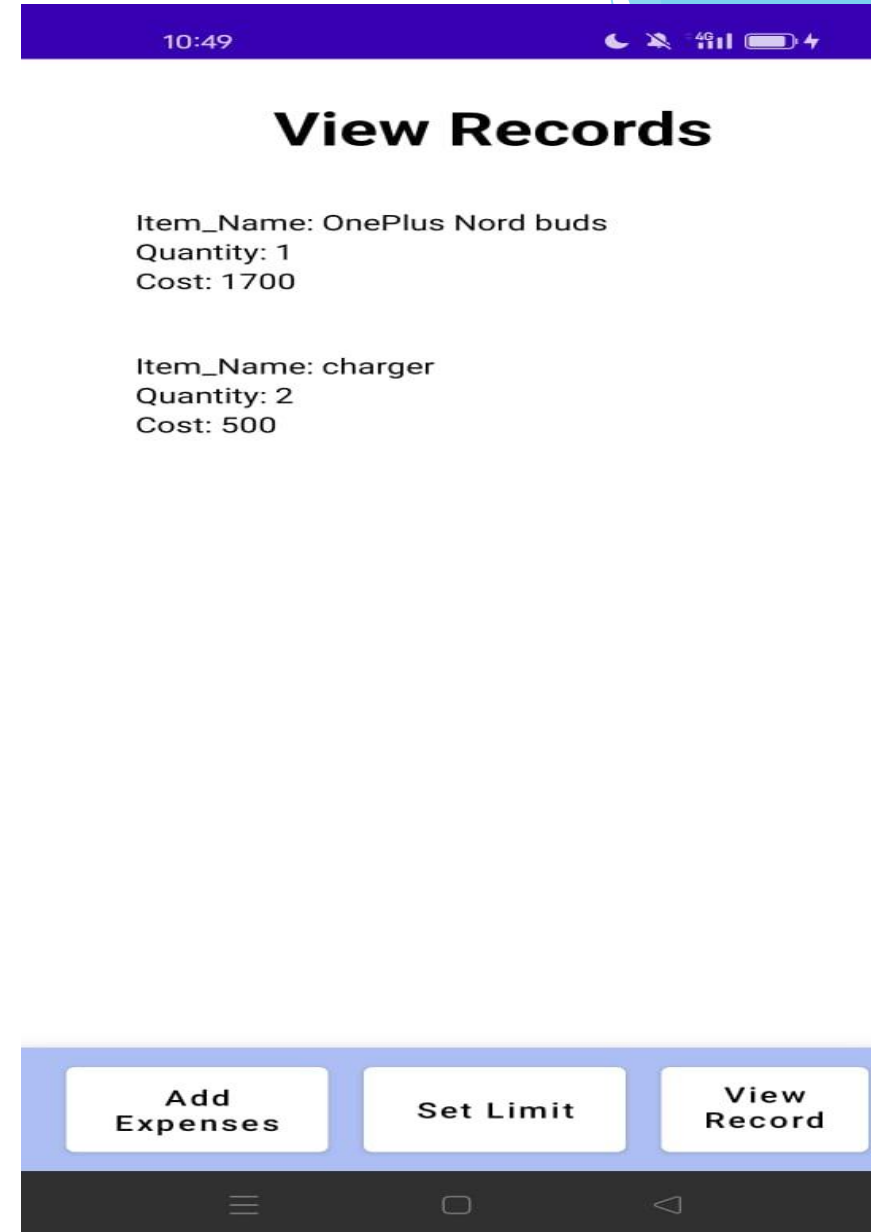
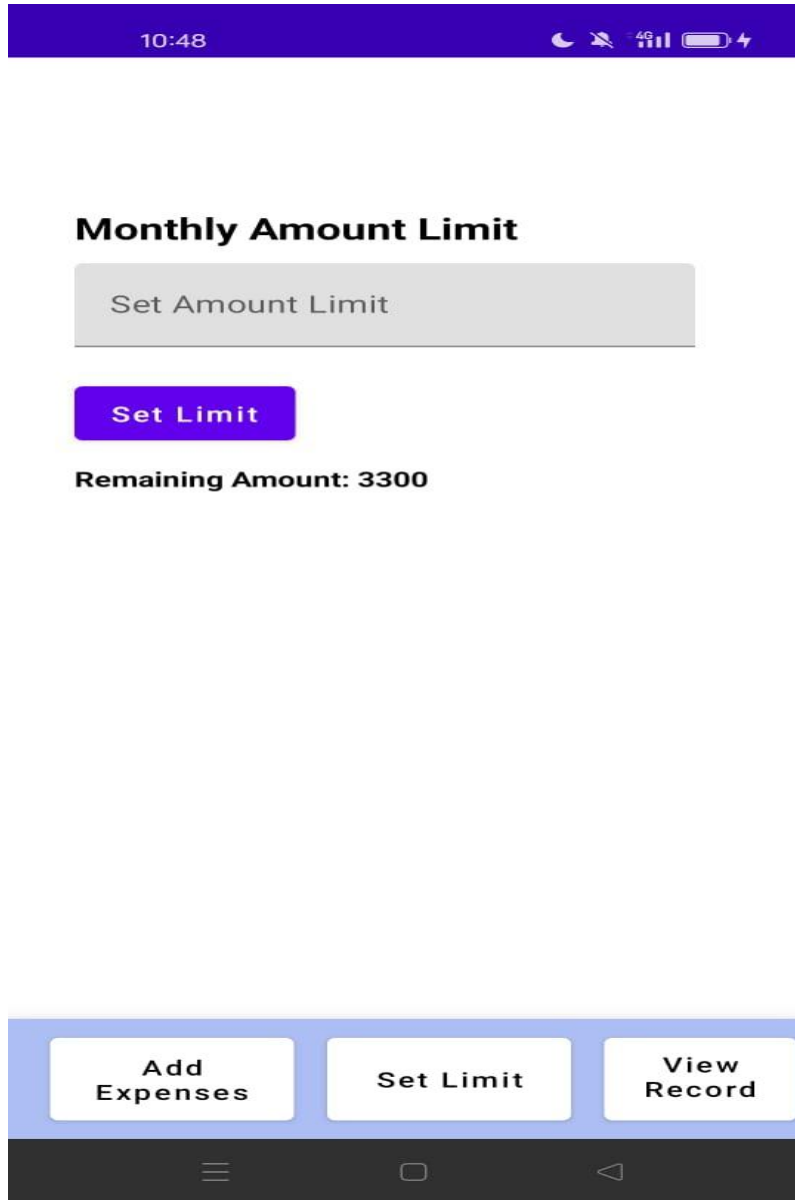
View Records

Item_Name: OnePlus Nord buds
Quantity: 1
Cost: 1700

Add Expenses

Set Limit

View Record



Monthly Amount Limit

Set Amount Limit

Set Limit

Remaining Amount: 2800

Add
Expenses

Set Limit

View
Record

View Records

Item_Name: OnePlus Nord buds
Quantity: 1
Cost: 1700

Item_Name: charger
Quantity: 2
Cost: 500

Item_Name: phone backcase
Quantity: 2
Cost: 500





Item_Name: sunglasses
Quantity: 3
Cost: 1000

Add
Expenses

Set Limit

View
Record

10:52



Monthly Amount Limit

Set Amount Limit




Set Limit

Remaining Amount: 1300





Add Expenses

Set Limit

View Record



10:52



Item Name

Item Name
watch

Quantity of item

Quantity
2

Cost of the item

Cost
2000

Submit

Limit Over

Add Expenses

Set Limit

View Record

