

# **MONEY MATTERS:**

**A PERSONAL** 

**FINANCE** 

**MANAGEMENT APP** 

**Project presented by** 

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#### 1. INTRODUCTION:

- 1.1. Overview:
- One of the most valuable life skills is learning how to manage money, but it is

important to start at the beginning. Why we use money in the first place and how

to get the best value with our money should be explained. We should also explore our relationship with money.

• Taking the time to understand the influence that money has in our lives can help

to contribute to a healthy relationship with money. Students will learn through

lessons and activities how money works and how they can make the most of it.

thus ensuring they have better control of their money in the long run.

•

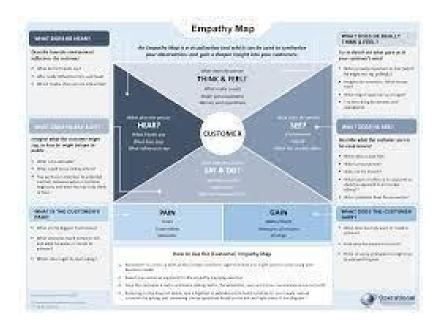
# 1.2. Purpose:

 The Money Matters module shows students how to manage their money by

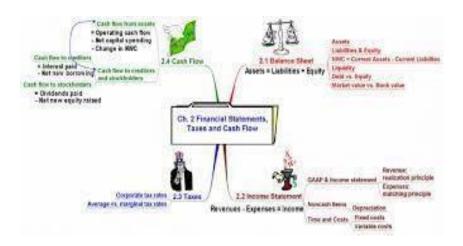
preparing a personal spending plan and identifying ways to decrease spending

and increase income.

- 2. PROBLEM DEFINITION & DESIGN THINKING
- 2.1. Empathy map:



#### 2.2 Brainstorming map:



## 4. ADVANTAGES AND DISADVANTAGE:

## **Advantages:**

- Money gives you freedom. When you have enough money, you can live where you want, take care of your needs, and indulge in your hobbies. ...
- Money gives you the power to pursue your dreams. ...
- Money gives you security.

# **Disadvantages:**

- No interest charges. There are no additional charges when you pay with cash. ...
- · Makes it easier to follow a budget. Cash can help you to stick to a budget. ...
- Cons:
- Less Secure. Cash is less secure than a credit card. ...
- Less Convenient....
- Your cash savings may not cover certain expenses. ...

### 5. APPLICATION:

Money Matters Money Advice Centre has secured funding from The British Gas Energy Trust, to allow us to provide a vital service to vulnerable and struggling clients who reside in Glasgow and South Lanarkshire. This "More Electricity & Gas Assistance" (MEGA) fund is to be used for the provision of those in priority need or who have been affected by the cost-of-living crisis.

MEGA Fund - More Electricity & Gas Assistance fund is available to customers with prepayment meters. Our Emergency Utility Credit Vouchers (maximum of 3 vouchers allowed per individual or couple/family) for all fuel company customers with prepayment meters (each voucher value will be a maximum of £49..

Applicants' personal data will not be used for any marketing purposes. We undertake to preserve the confidentiality of all information you provide to the Money Matters Money Advice Centre.

#### **6.** CONCLUSION:

Personal financial management is done by every individual on some level. The key is to strike the right balance between income, expenses, savings, and investments. This balance will ensure that the personal financial planning and management of the individual are optimum.

#### 7. FUTURE SCOPE:

The field of finance has a huge scope in future. As finance is an integral part of our economy, Financial Managers will always be in high demand. If you want to build a career in finance, the most popular sectors include corporate finance and public banking, credit and financial planning, and asset management.

#### 8. APPENDIX:

Budgeting, investing, saving and even spending are all a part of money management. So how do you build money confidence and reduce anxiety about your financial goals? Finding ways to better manage your money—and your mindset

#### 9. SORCE CODE:

```
<?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" />
            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">
```

```
<intent-filter>
                   <action android:name="android.intent.action.MAIN" />
                   <category android:name="android.intent.category.LAUNCHER"</pre>
   />
               </intent-filter>
           </activity>
       </application>
   </manifest>
   Color.kt
package com.example.expensestracker.ui.theme
import androidx.compose.ui.graphics.Color
val Purple200 = Color(0xFFBB86FC)
val Purple500 = Color(0xFF6200EE)
val Purple700 = Color(0xFF3700B3)
val Teal200 = Color(0xFF03DAC5)
   Shape.kt
package com.example.expensestracker.ui.theme
import androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.material.Shapes
import androidx.compose.ui.unit.dp
val Shapes = Shapes(
    small = RoundedCornerShape(4.dp),
    medium = RoundedCornerShape(4.dp),
    large = RoundedCornerShape(0.dp)
)
```

## Theme.kt

```
package com.example.expensestracker.ui.theme
import androidx.compose.foundation.isSystemInDarkTheme
import androidx.compose.material.MaterialTheme
import androidx.compose.material.darkColors
import androidx.compose.material.lightColors
import androidx.compose.runtime.Composable
private val DarkColorPalette = darkColors(
    primary = Purple200,
    primaryVariant = Purple700,
    secondary = Teal200
)
private val LightColorPalette = lightColors(
    primary = Purple500,
    primaryVariant = Purple700,
    secondary = Teal200
    /* Other default colors to override
    background = Color.White,
    surface = Color.White,
    onPrimary = Color.White,
    onSecondary = Color.Black,
    onBackground = Color.Black,
    onSurface = Color.Black,
)
```

```
@Composable
fun ExpensesTrackerTheme(
    darkTheme: Boolean = isSystemInDarkTheme(),
    content: @Composable () -> Unit
) {
    val colors = if (darkTheme) {
        DarkColorPalette
    } else {
        LightColorPalette
    }
   MaterialTheme(
        colors = colors,
        typography = Typography,
        shapes = Shapes,
        content = content
}
   Type.kt
package com.example.expensestracker.ui.theme
import androidx.compose.material.Typography
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.text.font.FontFamily
```

import androidx.compose.ui.text.font.FontWeight

import androidx.compose.ui.unit.sp

```
// Set of Material typography styles to start with
val Typography = Typography(
    body1 = TextStyle(
        fontFamily = FontFamily.Default,
        fontWeight = FontWeight.Normal,
        fontSize = 16.sp
    /* Other default text styles to override
    button = TextStyle(
        fontFamily = FontFamily.Default,
        fontWeight = FontWeight.W500,
        fontSize = 14.sp
    ),
    caption = TextStyle(
        fontFamily = FontFamily.Default,
        fontWeight = FontWeight.Normal,
        fontSize = 12.sp
)
   AddExpensesActivity.kt
package com.example.expensestracker
import android.annotation.SuppressLint
import android.content.Context
import android.content.Intent
import android.os.Bundle
import android.widget.Toast
```

```
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
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.platform.LocalContext
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
class AddExpensesActivity : ComponentActivity() {
    private lateinit var itemsDatabaseHelper: ItemsDatabaseHelper
   private lateinit var expenseDatabaseHelper: ExpenseDatabaseHelper
    @SuppressLint("UnusedMaterialScaffoldPaddingParameter")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        itemsDatabaseHelper = ItemsDatabaseHelper(this)
        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)
                            )
                             {
                                 Text(
                                     text = "View Records", color =
Color.Black, fontSize = 14.sp,
                                     textAlign = TextAlign.Center
                                 )
                             }
                        }
                    )
                }
            ) {
                AddExpenses(this, itemsDatabaseHelper, expenseDatabaseHelper)
            }
        }
    }
}
@SuppressLint("Range")
@Composable
fun AddExpenses (context: Context, itemsDatabaseHelper: ItemsDatabaseHelper,
expenseDatabaseHelper: ExpenseDatabaseHelper) {
    Column(
        modifier = Modifier
```

```
.padding(top = 100.dp, start = 30.dp)
            .fillMaxHeight()
            .fillMaxWidth(),
        horizontalAlignment = Alignment.Start
    ) {
        val mContext = LocalContext.current
        var items by remember { mutableStateOf("") }
        var quantity by remember { mutableStateOf("") }
        var cost by remember { mutableStateOf("") }
        var error by remember { mutableStateOf("") }
        Text(text = "Item Name", fontWeight = FontWeight.Bold, fontSize =
20.sp)
        Spacer(modifier = Modifier.height(10.dp))
        TextField(value = items, onValueChange = { items = it },
            label = { Text(text = "Item Name") })
        Spacer(modifier = Modifier.height(20.dp))
        Text(text = "Quantity of item", fontWeight = FontWeight.Bold,
fontSize = 20.sp)
        Spacer(modifier = Modifier.height(10.dp))
        TextField(value = quantity, onValueChange = { quantity = it },
            label = { Text(text = "Quantity") })
        Spacer(modifier = Modifier.height(20.dp))
```

```
Text(text = "Cost of the item", fontWeight = FontWeight.Bold,
fontSize = 20.sp)
        Spacer(modifier = Modifier.height(10.dp))
        TextField(value = cost, onValueChange = { cost = it },
            label = { Text(text = "Cost") })
        Spacer(modifier = Modifier.height(20.dp))
        if (error.isNotEmpty()) {
            Text(
                text = error,
                color = MaterialTheme.colors.error,
                modifier = Modifier.padding(vertical = 16.dp)
            )
        }
        Button(onClick = {
            if (items.isNotEmpty() && quantity.isNotEmpty() &&
cost.isNotEmpty()) {
                val items = Items(
                    id = null,
                    itemName = items,
                    quantity = quantity,
                    cost = cost
                )
```

val limit= expenseDatabaseHelper.getExpenseAmount(1)

```
val actualvalue = limit?.minus(cost.toInt())
               // Toast.makeText(mContext, actualvalue.toString(),
Toast.LENGTH SHORT).show()
                val expense = Expense(
                    id = 1,
                    amount = actualvalue.toString()
                )
                if (actualvalue != null) {
                    if (actualvalue < 1) {</pre>
                        Toast.makeText(mContext, "Limit Over",
Toast.LENGTH_SHORT) .show()
                    } else {
                         expenseDatabaseHelper.updateExpense(expense)
                         itemsDatabaseHelper.insertItems(items)
                    }
            }
        }) {
            Text(text = "Submit")
        }
    }
}
```

Expenses.kt

package com.example.expensestracker

```
import androidx.room.ColumnInfo
import androidx.room.Entity
import androidx.room.PrimaryKey
@Entity(tableName = "expense_table")
data class Expense (
    @PrimaryKey(autoGenerate = true) val id: Int?,
    @ColumnInfo(name = "amount") val amount: String?,
)
   ExpenseDao.kt
package com.example.expensestracker
import androidx.room.*
@Dao
interface ExpenseDao {
    @Query("SELECT * FROM expense table WHERE amount= :amount")
    suspend fun getExpenseByAmount(amount: String): Expense?
    @Insert(onConflict = OnConflictStrategy.REPLACE)
    suspend fun insertExpense(items: Expense)
    @Update
    suspend fun updateExpense(items: Expense)
    @Delete
```

```
suspend fun deleteExpense(items: Expense)
}
   ExpensesDao.kt
package com.example.expensestracker
import androidx.room.*
@Dao
interface ExpenseDao {
    @Query("SELECT * FROM expense table WHERE amount= :amount")
    suspend fun getExpenseByAmount(amount: String): Expense?
    @Insert(onConflict = OnConflictStrategy.REPLACE)
    suspend fun insertExpense(items: Expense)
    @Update
    suspend fun updateExpense(items: Expense)
    @Delete
    suspend fun deleteExpense(items: Expense)
}
   ExpenseDatabase.kt
package com.example.expensestracker
import android.content.Context
import androidx.room.Database
import androidx.room.Room
```

```
import androidx.room.RoomDatabase
@Database(entities = [Items::class], version = 1)
abstract class ExpenseDatabase : RoomDatabase() {
    abstract fun ExpenseDao(): ItemsDao
    companion object {
        @Volatile
        private var instance: ExpenseDatabase? = null
        fun getDatabase(context: Context): ExpenseDatabase {
            return instance ?: synchronized(this) {
                val newInstance = Room.databaseBuilder(
                    context.applicationContext,
                    ExpenseDatabase::class.java,
                    "expense database"
                ).build()
                instance = newInstance
                newInstance
            }
    }
}
```

# ExpenseDatabaseHelper.kt

package com.example.expensestracker

```
import android.annotation.SuppressLint
import android.content.ContentValues
import android.content.Context
import android.database.Cursor
import android.database.sqlite.SQLiteDatabase
import android.database.sqlite.SQLiteOpenHelper
class ExpenseDatabaseHelper(context: Context) :
    SQLiteOpenHelper(context, DATABASE_NAME, null, DATABASE_VERSION) {
    companion object {
        private const val DATABASE VERSION = 1
        private const val DATABASE NAME = "ExpenseDatabase.db"
        private const val TABLE_NAME = "expense_table"
        private const val COLUMN_ID = "id"
        private const val COLUMN AMOUNT = "amount"
    override fun onCreate(db: SQLiteDatabase?) {
        val createTable = "CREATE TABLE $TABLE NAME (" +
                "${COLUMN ID} INTEGER PRIMARY KEY AUTOINCREMENT, " +
                "${COLUMN AMOUNT} TEXT" +
                ")"
        db?.execSQL(createTable)
    }
```

```
override fun onUpgrade(db1: SQLiteDatabase?, oldVersion: Int, newVersion:
Int) {
        db1?.execSQL("DROP TABLE IF EXISTS $TABLE NAME")
        onCreate(db1)
    }
    fun insertExpense(expense: Expense) {
        val db1 = writableDatabase
        val values = ContentValues()
        values.put(COLUMN AMOUNT, expense.amount)
        db1.insert(TABLE NAME, null, values)
        db1.close()
    fun updateExpense(expense: Expense) {
        val db = writableDatabase
        val values = ContentValues()
        values.put(COLUMN AMOUNT, expense.amount)
        db.update(TABLE NAME, values, "$COLUMN ID=?",
arrayOf(expense.id.toString()))
        db.close()
    }
    @SuppressLint("Range")
    fun getExpenseByAmount(amount: String): Expense? {
        val db1 = readableDatabase
        val cursor: Cursor = db1.rawQuery("SELECT * FROM
${ExpenseDatabaseHelper.TABLE NAME} WHERE
```

```
${ExpenseDatabaseHelper.COLUMN_AMOUNT} = ?", arrayOf(amount))
        var expense: Expense? = null
        if (cursor.moveToFirst()) {
            expense = Expense(
                id = cursor.getInt(cursor.getColumnIndex(COLUMN ID)),
                amount =
cursor.getString(cursor.getColumnIndex(COLUMN AMOUNT)),
        cursor.close()
        db1.close()
        return expense
    @SuppressLint("Range")
    fun getExpenseById(id: Int): Expense? {
        val db1 = readableDatabase
        val cursor: Cursor = db1.rawQuery("SELECT * FROM $TABLE NAME WHERE
$COLUMN ID = ?", arrayOf(id.toString()))
        var expense: Expense? = null
        if (cursor.moveToFirst()) {
            expense = Expense(
                id = cursor.getInt(cursor.getColumnIndex(COLUMN ID)),
                amount =
cursor.getString(cursor.getColumnIndex(COLUMN AMOUNT)),
            )
        cursor.close()
        db1.close()
        return expense
```

```
}
    @SuppressLint("Range")
    fun getExpenseAmount(id: Int): Int? {
        val db = readableDatabase
        val query = "SELECT $COLUMN AMOUNT FROM $TABLE NAME WHERE
$COLUMN ID=?"
        val cursor = db.rawQuery(query, arrayOf(id.toString()))
        var amount: Int? = null
        if (cursor.moveToFirst()) {
            amount = cursor.getInt(cursor.getColumnIndex(COLUMN AMOUNT))
        cursor.close()
        db.close()
        return amount
    }
    @SuppressLint("Range")
    fun getAllExpense(): List<Expense> {
        val expenses = mutableListOf<Expense>()
        val db1 = readableDatabase
        val cursor: Cursor = db1.rawQuery("SELECT * FROM $TABLE NAME", null)
        if (cursor.moveToFirst()) {
            do {
                val expense = Expense(
                    id = cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
cursor.getString(cursor.getColumnIndex(COLUMN_AMOUNT)),
                expenses.add(expense)
            } while (cursor.moveToNext())
```

```
}
        cursor.close()
        db1.close()
        return expenses
}
   Items.kt
package com.example.expensestracker
import androidx.room.ColumnInfo
import androidx.room.Entity
import androidx.room.PrimaryKey
@Entity(tableName = "items_table")
data class Items(
    @PrimaryKey(autoGenerate = true) val id: Int?,
    @ColumnInfo(name = "item name") val itemName: String?,
    @ColumnInfo(name = "quantity") val quantity: String?,
    @ColumnInfo(name = "cost") val cost: String?,
)
   ItemsDao.kt
package com.example.expensestracker
import androidx.room.*
```

```
@Dao
interface ItemsDao {
    @Query("SELECT * FROM items_table WHERE cost= :cost")
    suspend fun getItemsByCost(cost: String): Items?
    @Insert(onConflict = OnConflictStrategy.REPLACE)
    suspend fun insertItems(items: Items)
    @Update
    suspend fun updateItems(items: Items)
    @Delete
    suspend fun deleteItems(items: Items)
}
   ItemsDatabase.kt
package com.example.expensestracker
import android.content.Context
import androidx.room.Database
import androidx.room.Room
import androidx.room.RoomDatabase
@Database(entities = [Items::class], version = 1)
```

abstract class ItemsDatabase : RoomDatabase() {

abstract fun ItemsDao(): ItemsDao

```
companion object {
        @Volatile
        private var instance: ItemsDatabase? = null
        fun getDatabase(context: Context): ItemsDatabase {
            return instance ?: synchronized(this) {
                val newInstance = Room.databaseBuilder(
                    context.applicationContext,
                    ItemsDatabase::class.java,
                    "items database"
                ).build()
                instance = newInstance
                newInstance
            }
   ItemDatabaseHelper.kt
package com.example.expensestracker
import android.annotation.SuppressLint
import android.content.ContentValues
import android.content.Context
import android.database.Cursor
import android.database.sqlite.SQLiteDatabase
import android.database.sqlite.SQLiteOpenHelper
```

```
class ItemsDatabaseHelper(context: Context) :
    SQLiteOpenHelper(context, DATABASE NAME, null, DATABASE VERSION) {
    companion object {
        private const val DATABASE VERSION = 1
        private const val DATABASE NAME = "ItemsDatabase.db"
        private const val TABLE NAME = "items table"
        private const val COLUMN ID = "id"
        private const val COLUMN ITEM NAME = "item name"
        private const val COLUMN QUANTITY = "quantity"
        private const val COLUMN COST = "cost"
    }
    override fun onCreate(db: SQLiteDatabase?) {
        val createTable = "CREATE TABLE $TABLE NAME (" +
                "${COLUMN ID} INTEGER PRIMARY KEY AUTOINCREMENT, " +
                "${COLUMN ITEM NAME} TEXT," +
                "${COLUMN QUANTITY} TEXT," +
                "${COLUMN COST} TEXT" +
                ")"
        db?.execSQL(createTable)
    }
```

```
override fun onUpgrade(db: SQLiteDatabase?, oldVersion: Int, newVersion:
Int) {
        db?.execSQL("DROP TABLE IF EXISTS $TABLE NAME")
        onCreate(db)
    }
    fun insertItems(items: Items) {
        val db = writableDatabase
        val values = ContentValues()
        values.put(COLUMN ITEM NAME, items.itemName)
        values.put(COLUMN QUANTITY, items.quantity)
        values.put(COLUMN COST, items.cost)
        db.insert(TABLE NAME, null, values)
        db.close()
    }
    @SuppressLint("Range")
    fun getItemsByCost(cost: String): Items? {
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM $TABLE NAME WHERE
$COLUMN COST = ?", arrayOf(cost))
        var items: Items? = null
        if (cursor.moveToFirst()) {
            items = Items(
                id = cursor.getInt(cursor.getColumnIndex(COLUMN ID)),
                itemName =
cursor.getString(cursor.getColumnIndex(COLUMN ITEM NAME)),
```

```
quantity =
cursor.getString(cursor.getColumnIndex(COLUMN QUANTITY)),
                cost = cursor.getString(cursor.getColumnIndex(COLUMN COST)),
            )
        }
        cursor.close()
        db.close()
        return items
    }
    @SuppressLint("Range")
    fun getItemsById(id: Int): Items? {
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM $TABLE NAME WHERE
$COLUMN ID = ?", arrayOf(id.toString()))
        var items: Items? = null
        if (cursor.moveToFirst()) {
            items = Items(
                id = cursor.getInt(cursor.getColumnIndex(COLUMN ID)),
                itemName =
cursor.getString(cursor.getColumnIndex(COLUMN ITEM NAME)),
                quantity =
cursor.getString(cursor.getColumnIndex(COLUMN QUANTITY)),
               cost = cursor.getString(cursor.getColumnIndex(COLUMN COST)),
            )
        }
        cursor.close()
        db.close()
        return items
    }
```

```
@SuppressLint("Range")
    fun getAllItems(): List<Items> {
        val item = mutableListOf<Items>()
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM $TABLE NAME", null)
        if (cursor.moveToFirst()) {
            do {
                val items = Items(
                    id = cursor.getInt(cursor.getColumnIndex(COLUMN_ID)),
                    itemName =
cursor.getString(cursor.getColumnIndex(COLUMN ITEM NAME)),
                    quantity =
cursor.getString(cursor.getColumnIndex(COLUMN QUANTITY)),
                    cost =
cursor.getString(cursor.getColumnIndex(COLUMN COST)),
                )
                item.add(items)
            } while (cursor.moveToNext())
        }
        cursor.close()
        db.close()
        return item
    }
}
   LoginActivity.kt
package com.example.expensestracker
```

```
import android.content.Context
import android.content.Intent
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
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.layout.ContentScale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.input.PasswordVisualTransformation
import androidx.compose.ui.text.input.VisualTransformation
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.core.content.ContextCompat
import com.example.expensestracker.ui.theme.ExpensesTrackerTheme
class LoginActivity : ComponentActivity() {
   private lateinit var databaseHelper: UserDatabaseHelper
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
```

```
databaseHelper = UserDatabaseHelper(this)
        setContent {
            ExpensesTrackerTheme {
                // A surface container using the 'background' color from the
theme
                Surface(
                    modifier = Modifier.fillMaxSize(),
                    color = MaterialTheme.colors.background
                ) {
                    LoginScreen(this, databaseHelper)
                }
            }
    }
}
@Composable
fun LoginScreen(context: Context, databaseHelper: UserDatabaseHelper) {
    Image(
        painterResource(id = R.drawable.img 1), contentDescription = "",
        alpha = 0.3F,
        contentScale = ContentScale.FillHeight,
        )
   var username by remember { mutableStateOf("") }
   var password by remember { mutableStateOf("") }
   var error by remember { mutableStateOf("") }
```

```
Column(
   modifier = Modifier.fillMaxSize(),
   horizontalAlignment = Alignment.CenterHorizontally,
   verticalArrangement = Arrangement.Center
) {
   Text(
        fontSize = 36.sp,
        fontWeight = FontWeight.ExtraBold,
        fontFamily = FontFamily.Cursive,
        color = Color.White,
        text = "Login"
    )
    Spacer(modifier = Modifier.height(10.dp))
   TextField(
        value = username,
        onValueChange = { username = it },
        label = { Text("Username") },
        modifier = Modifier.padding(10.dp)
            .width(280.dp)
    )
   TextField(
        value = password,
        onValueChange = { password = it },
        label = { Text("Password") },
```

```
modifier = Modifier.padding(10.dp)
        .width(280.dp),
    visualTransformation = PasswordVisualTransformation()
)
if (error.isNotEmpty()) {
    Text(
        text = error,
        color = MaterialTheme.colors.error,
        modifier = Modifier.padding(vertical = 16.dp)
    )
}
Button (
    onClick = {
        if (username.isNotEmpty() && password.isNotEmpty()) {
            val user = databaseHelper.getUserByUsername(username)
            if (user != null && user.password == password) {
                error = "Successfully log in"
                context.startActivity(
                    Intent(
                        context,
                        MainActivity::class.java
                    )
                //onLoginSuccess()
            }
```

```
else {
                error = "Invalid username or password"
            }
        } else {
           error = "Please fill all fields"
        }
    },
    modifier = Modifier.padding(top = 16.dp)
) {
    Text(text = "Login")
}
Row {
    TextButton(onClick = {context.startActivity(
        Intent(
            context,
           RegisterActivity::class.java
       )
    ) }
    )
    { Text(color = Color.White, text = "Sign up") }
    TextButton(onClick = {
    })
    {
        Spacer(modifier = Modifier.width(60.dp))
        Text(color = Color.White,text = "Forget password?")
    }
```

```
}
    }
}
private fun startMainPage(context: Context) {
    val intent = Intent(context, MainActivity::class.java)
    ContextCompat.startActivity(context, intent, null)
}
   MainActivity.kt
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.Image
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.ExpensesTrackerTheme
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,
                                             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)
                            )
                             {
                                 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.dp))
    }
}
   RegisterActivity.kt
package com.example.expensestracker
import android.content.Context
```

```
import android.content.Intent
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
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.layout.ContentScale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.input.PasswordVisualTransformation
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
```

```
import androidx.compose.ui.unit.sp
import androidx.core.content.ContextCompat
import com.example.expensestracker.ui.theme.ExpensesTrackerTheme
class RegisterActivity : ComponentActivity() {
   private lateinit var databaseHelper: UserDatabaseHelper
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        databaseHelper = UserDatabaseHelper(this)
        setContent {
            ExpensesTrackerTheme {
                // A surface container using the 'background' color from the
theme
                Surface(
                    modifier = Modifier.fillMaxSize(),
                    color = MaterialTheme.colors.background
                ) {
                    RegistrationScreen(this, databaseHelper)
```

```
}
            }
}
@Composable
fun RegistrationScreen(context: Context, databaseHelper: UserDatabaseHelper)
    Image(
        painterResource(id = R.drawable.img_1), contentDescription = "",
        alpha = 0.3F,
        contentScale = ContentScale.FillHeight,
        )
    var username by remember { mutableStateOf("") }
    var password by remember { mutableStateOf("") }
```

```
var email by remember { mutableStateOf("") }
var error by remember { mutableStateOf("") }
Column(
    modifier = Modifier.fillMaxSize(),
    horizontalAlignment = Alignment.CenterHorizontally,
    verticalArrangement = Arrangement.Center
) {
    Text(
        fontSize = 36.sp,
        fontWeight = FontWeight.ExtraBold,
        fontFamily = FontFamily.Cursive,
        color = Color.White,
        text = "Register"
    )
    Spacer(modifier = Modifier.height(10.dp))
```

```
TextField(
    value = username,
    onValueChange = { username = it },
    label = { Text("Username") },
    modifier = Modifier
        .padding(10.dp)
        .width(280.dp)
)
TextField(
    value = email,
    onValueChange = { email = it },
    label = { Text("Email") },
    modifier = Modifier
        .padding(10.dp)
        .width(280.dp)
)
```

```
TextField(
    value = password,
    onValueChange = { password = it },
    label = { Text("Password") },
    modifier = Modifier
        .padding(10.dp)
        .width(280.dp),
    visualTransformation = PasswordVisualTransformation()
)
if (error.isNotEmpty()) {
    Text(
        text = error,
        color = MaterialTheme.colors.error,
        modifier = Modifier.padding(vertical = 16.dp)
    )
```

```
}
        Button(
            onClick = {
                if (username.isNotEmpty() && password.isNotEmpty() &&
email.isNotEmpty()) {
                    val user = User(
                        id = null,
                        firstName = username,
                        lastName = null,
                        email = email,
                        password = password
                    )
                    databaseHelper.insertUser(user)
                    error = "User registered successfully"
                    // Start LoginActivity using the current context
                    context.startActivity(
                        Intent(
                            context,
```

```
)
                    )
                } else {
                    error = "Please fill all fields"
                }
            },
            modifier = Modifier.padding(top = 16.dp)
        ) {
            Text(text = "Register")
        }
        Spacer(modifier = Modifier.width(10.dp))
        Spacer(modifier = Modifier.height(10.dp))
        Row() {
            Text(
                modifier = Modifier.padding(top = 14.dp), text = "Have an
account?"
```

LoginActivity::class.java

```
)
            TextButton(onClick = {
                context.startActivity(
                    Intent(
                        context,
                        LoginActivity::class.java
                    )
                )
            })
            {
                Spacer(modifier = Modifier.width(10.dp))
                Text(text = "Log in")
            }
        }
    }
}
private fun startLoginActivity(context: Context) {
```

```
val intent = Intent(context, LoginActivity::class.java)
ContextCompat.startActivity(context, intent, null)
}
```

## SetLimitACtivity.kt

package com.example.expensestracker

```
import android.annotation.SuppressLint
import android.content.Context
import android.content.Intent
import android.os.Bundle
import android.util.Log
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.LazyRow
import androidx.compose.foundation.lazy.items
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.text.font.FontWeight
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
```

```
import androidx.compose.ui.unit.sp
import com.example.expensestracker.ui.theme.ExpensesTrackerTheme
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)
                            )
                                 Text (
```

```
text = "View Records", color =
Color.Black, fontSize = 14.sp,
                                     textAlign = TextAlign.Center
                                 )
                            }
                        }
                    )
                }
            ) {
                val data=expenseDatabaseHelper.getAllExpense();
                Log.d("swathi" ,data.toString())
                val expense = expenseDatabaseHelper.getAllExpense()
                Limit(this, expenseDatabaseHelper, expense)
            }
        }
    }
}
@Composable
fun Limit(context: Context, expenseDatabaseHelper: ExpenseDatabaseHelper,
expense: List<Expense>) {
    Column (
        modifier = Modifier
            .padding(top = 100.dp, start = 30.dp)
            .fillMaxHeight()
            .fillMaxWidth(),
        horizontalAlignment = Alignment.Start
    ) {
```

```
var amount by remember { mutableStateOf("") }
        var error by remember { mutableStateOf("") }
        Text(text = "Monthly Amount Limit", fontWeight = FontWeight.Bold,
fontSize = 20.sp)
        Spacer(modifier = Modifier.height(10.dp))
        TextField(value = amount, onValueChange = { amount = it },
            label = { Text(text = "Set Amount Limit ") })
        Spacer(modifier = Modifier.height(20.dp))
        if (error.isNotEmpty()) {
            Text (
                text = error,
                color = MaterialTheme.colors.error,
                modifier = Modifier.padding(vertical = 16.dp)
            )
        }
        Button(onClick = {
            if (amount.isNotEmpty()) {
                val expense = Expense(
                    id = null,
                    amount = amount
                )
                expenseDatabaseHelper.insertExpense(expense)
            }
```

```
}) {
            Text(text = "Set Limit")
        }
        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)
                        }
                    }
                }
        }
```

```
}
}
   User.kt
package com.example.expensestracker
import androidx.room.ColumnInfo
import androidx.room.Entity
import androidx.room.PrimaryKey
@Entity(tableName = "user_table")
data class User (
    @PrimaryKey(autoGenerate = true) val id: Int?,
    @ColumnInfo(name = "first name") val firstName: String?,
    @ColumnInfo(name = "last name") val lastName: String?,
    @ColumnInfo(name = "email") val email: String?,
    @ColumnInfo(name = "password") val password: String?,
```

```
UserDao.kt
package com.example.expensestracker
import androidx.room.*
@Dao
interface UserDao {
    @Query("SELECT * FROM user_table WHERE email = :email")
    suspend fun getUserByEmail(email: String): User?
    @Insert(onConflict = OnConflictStrategy.REPLACE)
    suspend fun insertUser(user: User)
    @Update
    suspend fun updateUser(user: User)
    @Delete
    suspend fun deleteUser(user: User)
}
   UserDatabase.kt
package com.example.expensestracker
import android.content.Context
import androidx.room.Database
import androidx.room.Room
import androidx.room.RoomDatabase
```

```
@Database(entities = [User::class], version = 1)
abstract class UserDatabase : RoomDatabase() {
    abstract fun userDao(): UserDao
    companion object {
        @Volatile
        private var instance: UserDatabase? = null
        fun getDatabase(context: Context): UserDatabase {
            return instance ?: synchronized(this) {
                val newInstance = Room.databaseBuilder(
                    context.applicationContext,
                    UserDatabase::class.java,
                    "user database"
                ).build()
                instance = newInstance
                newInstance
            }
}
   UserDatabaseHelper.kt
package com.example.expensestracker
import android.annotation.SuppressLint
```

```
import android.content.ContentValues
import android.content.Context
import android.database.Cursor
import android.database.sqlite.SQLiteDatabase
import android.database.sqlite.SQLiteOpenHelper
class UserDatabaseHelper(context: Context) :
    SQLiteOpenHelper(context, DATABASE NAME, null, DATABASE VERSION) {
    companion object {
       private const val DATABASE VERSION = 1
       private const val DATABASE NAME = "UserDatabase.db"
       private const val TABLE NAME = "user table"
       private const val COLUMN_ID = "id"
       private const val COLUMN FIRST NAME = "first name"
       private const val COLUMN LAST NAME = "last name"
       private const val COLUMN EMAIL = "email"
       private const val COLUMN PASSWORD = "password"
    }
    override fun onCreate(db: SQLiteDatabase?) {
       val createTable = "CREATE TABLE $TABLE NAME (" +
                "$COLUMN ID INTEGER PRIMARY KEY AUTOINCREMENT, " +
                "$COLUMN_FIRST_NAME TEXT, " +
                "$COLUMN LAST NAME TEXT, " +
                "$COLUMN EMAIL TEXT, " +
                "$COLUMN PASSWORD TEXT" +
```

```
") "
```

```
db?.execSQL(createTable)
    }
   override fun onUpgrade(db: SQLiteDatabase?, oldVersion: Int, newVersion:
Int) {
        db?.execSQL("DROP TABLE IF EXISTS $TABLE NAME")
        onCreate(db)
    }
    fun insertUser(user: User) {
        val db = writableDatabase
        val values = ContentValues()
        values.put(COLUMN FIRST NAME, user.firstName)
        values.put(COLUMN LAST NAME, user.lastName)
        values.put(COLUMN EMAIL, user.email)
        values.put(COLUMN PASSWORD, user.password)
        db.insert(TABLE NAME, null, values)
        db.close()
    }
    @SuppressLint("Range")
    fun getUserByUsername(username: String): User? {
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM $TABLE NAME WHERE
$COLUMN FIRST NAME = ?", arrayOf(username))
        var user: User? = null
        if (cursor.moveToFirst()) {
```

```
user = User(
                id = cursor.getInt(cursor.getColumnIndex(COLUMN ID)),
                firstName =
cursor.getString(cursor.getColumnIndex(COLUMN FIRST NAME)),
                lastName =
cursor.getString(cursor.getColumnIndex(COLUMN LAST NAME)),
                email = cursor.getString(cursor.getColumnIndex(COLUMN EMAIL)),
                password =
cursor.getString(cursor.getColumnIndex(COLUMN PASSWORD)),
        cursor.close()
        db.close()
        return user
    }
    @SuppressLint("Range")
    fun getUserById(id: Int): User? {
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM $TABLE NAME WHERE
$COLUMN ID = ?", arrayOf(id.toString()))
        var user: User? = null
        if (cursor.moveToFirst()) {
            user = User(
                id = cursor.getInt(cursor.getColumnIndex(COLUMN ID)),
                firstName =
cursor.getString(cursor.getColumnIndex(COLUMN FIRST NAME)),
                lastName =
cursor.getString(cursor.getColumnIndex(COLUMN LAST NAME)),
                email = cursor.getString(cursor.getColumnIndex(COLUMN EMAIL)),
                password =
cursor.getString(cursor.getColumnIndex(COLUMN PASSWORD)),
```

```
)
        cursor.close()
        db.close()
        return user
    }
    @SuppressLint("Range")
    fun getAllUsers(): List<User> {
        val users = mutableListOf<User>()
        val db = readableDatabase
        val cursor: Cursor = db.rawQuery("SELECT * FROM $TABLE NAME", null)
        if (cursor.moveToFirst()) {
            do {
                val user = User(
                    id = cursor.getInt(cursor.getColumnIndex(COLUMN ID)),
                    firstName =
cursor.getString(cursor.getColumnIndex(COLUMN FIRST NAME)),
                    lastName =
cursor.getString(cursor.getColumnIndex(COLUMN LAST NAME)),
                    email =
cursor.getString(cursor.getColumnIndex(COLUMN EMAIL)),
                   password =
cursor.getString(cursor.getColumnIndex(COLUMN PASSWORD)),
                users.add(user)
            } while (cursor.moveToNext())
        cursor.close()
        db.close()
```

```
return users
}
   ViewRecordsActivity.kt
package com.example.expensestracker
import android.annotation.SuppressLint
import android.content.Intent
import android.os.Bundle
import android.util.Log
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.ScrollState
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.LazyRow
import androidx.compose.foundation.lazy.items
import androidx.compose.foundation.verticalScroll
import androidx.compose.material.*
```

```
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
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.ExpensesTrackerTheme
class ViewRecordsActivity : ComponentActivity() {
   private lateinit var itemsDatabaseHelper: ItemsDatabaseHelper
    @SuppressLint("UnusedMaterialScaffoldPaddingParameter",
"SuspiciousIndentation")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        itemsDatabaseHelper = ItemsDatabaseHelper(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)
                            )
                                Text(
                                   text = "View Records", color =
Color.Black, fontSize = 14.sp,
```

```
textAlign = TextAlign.Center
                    )
                }
            }
        )
    }
) {
    val data=itemsDatabaseHelper.getAllItems();
    Log.d("swathi" ,data.toString())
    val items = itemsDatabaseHelper.getAllItems()
        Records (items)
    }
```

```
fun Records(items: List<Items>) {
    Text(text = "View Records", modifier = Modifier.padding(top = 24.dp,
start = 106.dp, bottom = 24.dp), fontSize = 30.sp, fontWeight =
FontWeight.Bold)
    Spacer(modifier = Modifier.height(30.dp))
    LazyRow(
        modifier = Modifier
            .fillMaxSize()
            .padding(top = 80.dp),
        horizontalArrangement = Arrangement.SpaceBetween
    ) {
        item {
            LazyColumn {
                items(items) { items ->
                    Column(modifier = Modifier.padding(top = 16.dp, start =
48.dp, bottom = 20.dp)) {
                        Text("Item_Name: ${items.itemName}")
                        Text("Quantity: ${items.quantity}")
```

```
Text("Cost: ${items.cost}")
                    }
                }
            }
    }
}
   ExampleInstrumentedTest.kt
package com.example.expensestracker
import androidx.test.platform.app.InstrumentationRegistry
import androidx.test.ext.junit.runners.AndroidJUnit4
import org.junit.Test
import org.junit.runner.RunWith
import org.junit.Assert.*
/**
 * Instrumented test, which will execute on an Android device.
 * See [testing documentation] (http://d.android.com/tools/testing).
 */
```

```
@RunWith(AndroidJUnit4::class)
class ExampleInstrumentedTest {
    @Test
    fun useAppContext() {
        // Context of the app under test.
        val appContext =
{\tt InstrumentationRegistry.getInstrumentation().} target{\tt Context}
        assertEquals("com.example.expensestracker", appContext.packageName)
    }
}
   ExampleUnitTest.kt
package com.example.expensestracker
import org.junit.Test
import org.junit.Assert.*
/**
 * Example local unit test, which will execute on the development machine
(host).
 * See [testing documentation] (http://d.android.com/tools/testing).
 */
class ExampleUnitTest {
    @Test
    fun addition isCorrect() {
        assertEquals(4, 2 + 2)
}
```

## **10**.OUTPUT:

## **Monthly Amount**

Set Monthly Amount Limit



