

ANDROID APP DEVELOPMENT

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FRAGMENT LOGIN CODE:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="180dp"
        android:text="Login"
        android:paddingVertical="35dp"
        android:textAlignment="center"
        android:textSize="50sp"
        android:fontFamily="cursive"
        android:textColor="#FFF"
        android:background="@drawable/bg"
        android:layout_marginBottom="25dp"
    />

    <TextView
        android:layout_width="match_parent"
        android:layout_marginHorizontal="30dp"
        android:layout_height="wrap_content"
        android:text="User name"
        android:textColor="@color/black"
        android:textSize="20dp"
    />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginHorizontal="30dp"
        android:layout_marginBottom="30dp"
    />

    <TextView
        android:layout_width="match_parent"
        android:layout_marginHorizontal="30dp"
        android:layout_height="wrap_content"
        android:text="Password"
        android:textColor="@color/black"
        android:textSize="20dp"
    />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```

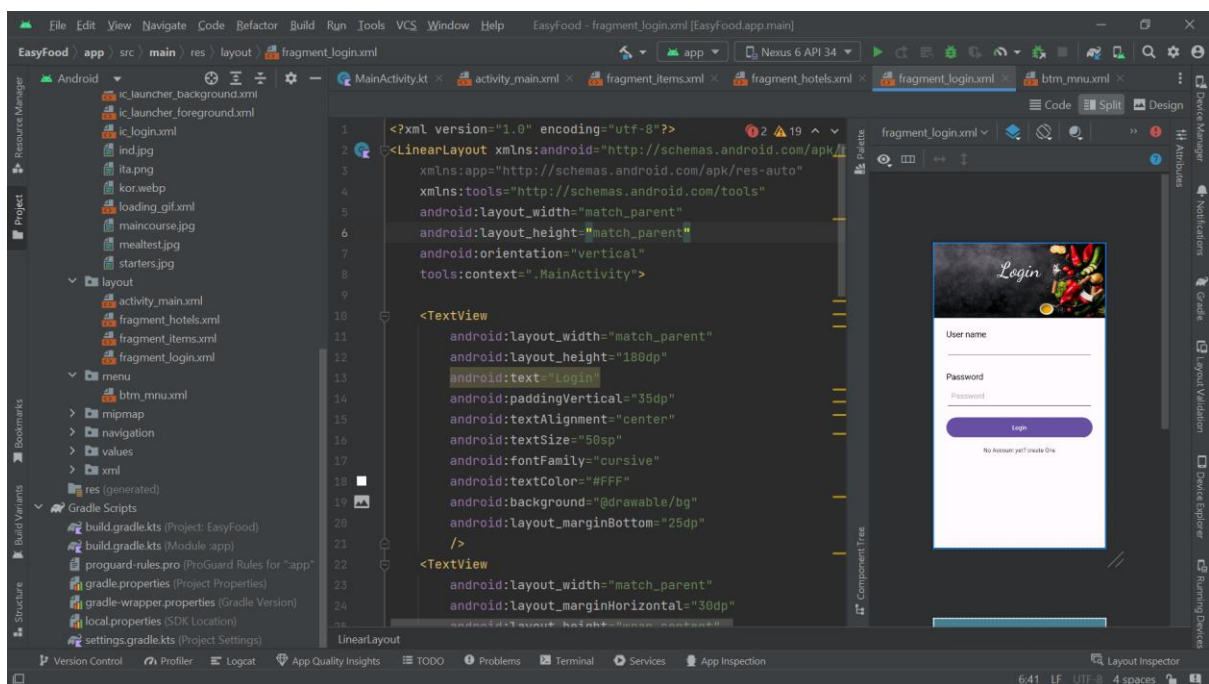
        android:hint="Password"
        android:inputType="textPassword"
        android:paddingHorizontal="12dp"
        android:paddingVertical="20dp"
        android:layout_marginHorizontal="30dp"
    />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Login"
        android:layout_marginHorizontal="30dp"
        android:layout_marginVertical="20dp"
        android:background="@drawable/button_bg"
        android:textColor="#fafafa"
    />

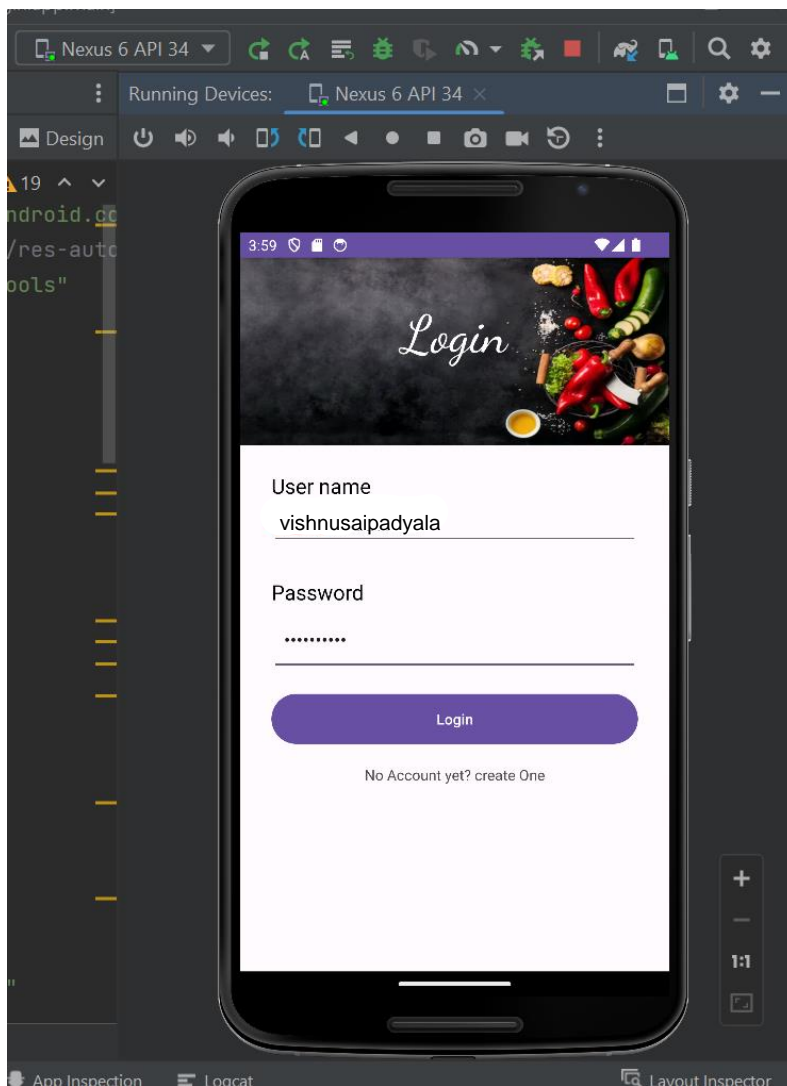
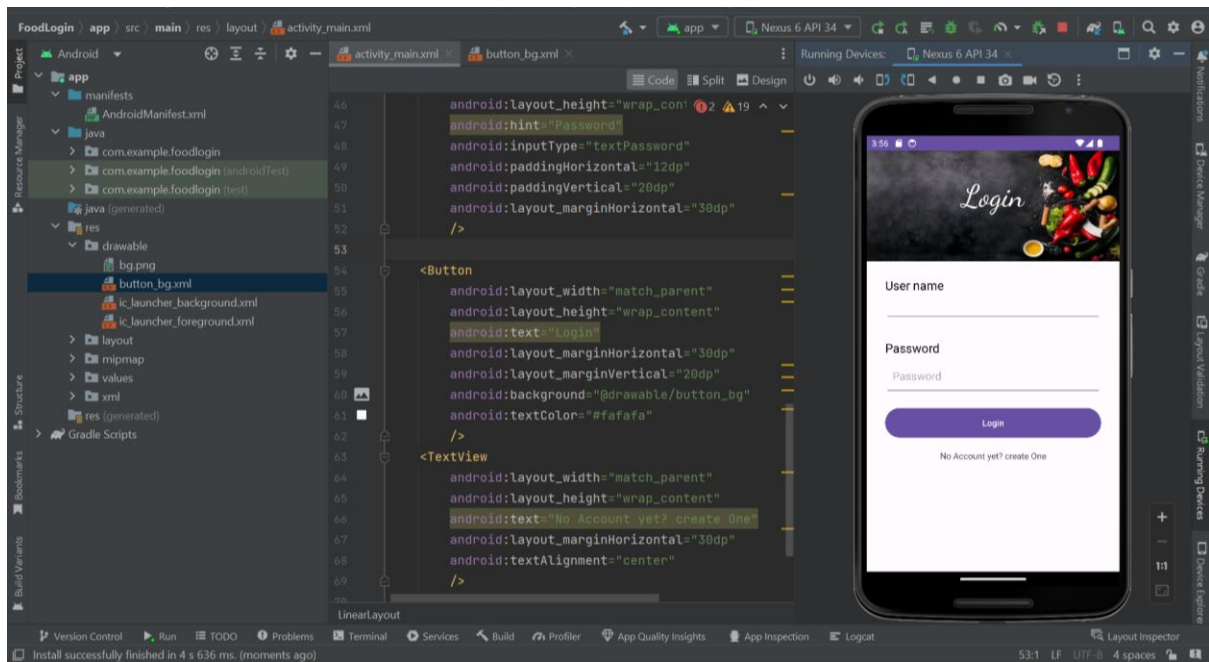
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="No Account yet? create One"
        android:layout_marginHorizontal="30dp"
        android:textAlignment="center"
    />

</LinearLayout>

```



In Amulator



FRAGMENT_HOTELS CODE:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
android:background="#97C1A9"
tools:context=".hotelsFragment">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="212dp"
        android:layout_marginBottom="25dp"
        android:background="@drawable/bghotels"
        android:fontFamily="cursive"
        android:paddingVertical="50dp"
        android:text="List of
                    Hotels"
        android:textAlignment="center"
        android:textColor="#FFF"
        android:textSize="50sp"
        android:textStyle="bold"
        tools:ignore="MissingConstraints" />

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginHorizontal="30dp"
        android:fontFamily="cursive"
        android:text="Types of Cuisines"
        android:textColor="#FFF"
        android:textSize="40dp"
        android:textStyle="bold"
        tools:layout_editor_absoluteX="8dp"
        tools:layout_editor_absoluteY="229dp"
        tools:ignore="MissingConstraints" />

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginHorizontal="10dp"
        android:fontFamily="serif"
        android:text="--->Indian      --->American"
        android:textColor="#ffe89d"
        android:textSize="25dp"
        tools:layout_editor_absoluteX="10dp"
        tools:layout_editor_absoluteY="395dp"
        tools:ignore="MissingConstraints" />

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginHorizontal="10dp"
        android:fontFamily="serif"
        android:text="--->Italian      --->Vietnamese"
        android:textColor="#ffe89d"
```

```
        android:textSize="25dp"
        tools:layout_editor_absoluteX="9dp"
        tools:layout_editor_absoluteY="362dp"
        tools:ignore="MissingConstraints" />
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginHorizontal="10dp"
    android:fontFamily="serif"
    android:text="--->Korean      --->Japanese"
    android:textColor="#ffe89d"
    android:textSize="25dp"
    tools:layout_editor_absoluteX="16dp"
    tools:layout_editor_absoluteY="329dp"
    tools:ignore="MissingConstraints" />
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginHorizontal="10dp"
    android:fontFamily="serif"
    android:text="--->Chinese      --->Thai"
    android:textColor="#ffe89d"
    android:textSize="25dp"
    tools:layout_editor_absoluteX="50dp"
    tools:layout_editor_absoluteY="296dp"
    tools:ignore="MissingConstraints" />
```

```
<ImageButton
    android:layout_width="157dp"
    android:layout_height="110dp"
    android:background="@drawable/ind"
    android:clickable="true"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="30dp"
    tools:layout_editor_absoluteY="463dp" />
```

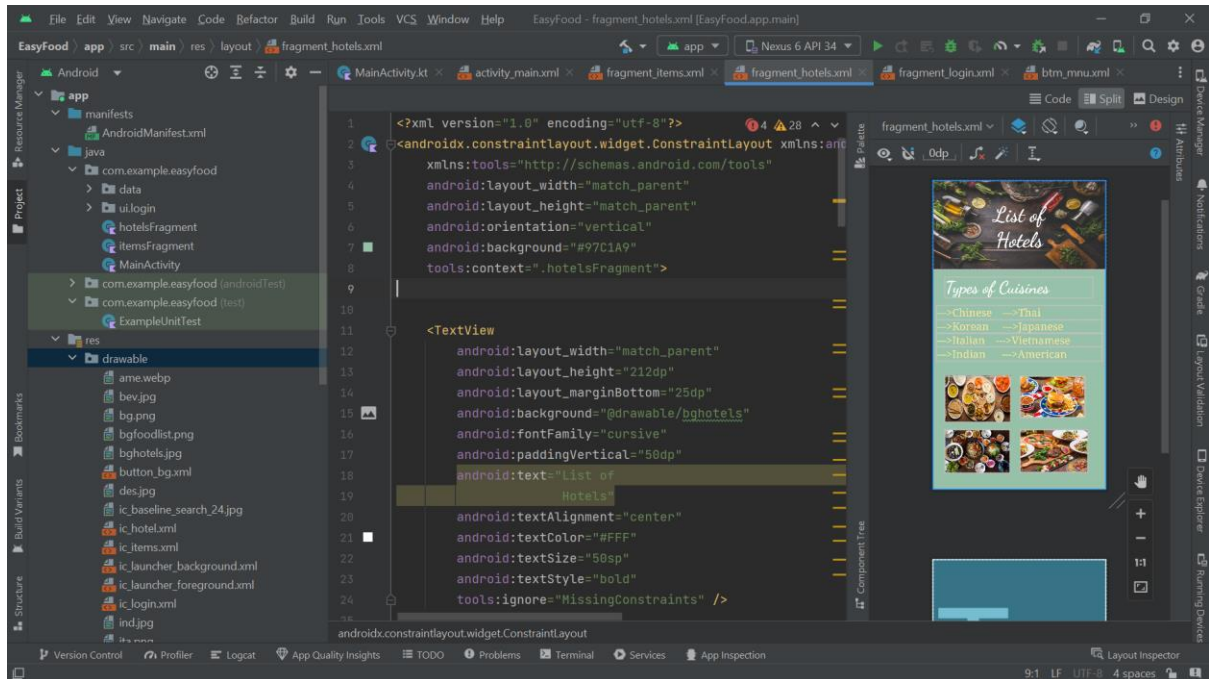
```
<ImageButton
    android:layout_width="154dp"
    android:layout_height="97dp"
    android:background="@drawable/ame"
    android:clickable="true"
    tools:layout_editor_absoluteX="207dp"
    tools:layout_editor_absoluteY="464dp"
    tools:ignore="MissingConstraints" />
```

```
<ImageButton
    android:layout_width="153dp"
    android:layout_height="103dp"
    android:background="@drawable/kor"
    android:clickable="true"
    tools:layout_editor_absoluteX="30dp"
    tools:layout_editor_absoluteY="590dp"
    tools:ignore="MissingConstraints" />
```

```
<ImageButton
    android:layout_width="161dp"
    android:layout_height="101dp"
    android:background="@drawable/ita"
    android:clickable="true"
```

```
tools:layout_editor_absoluteX="207dp"
tools:layout_editor_absoluteY="590dp"
tools:ignore="MissingConstraints" />
```

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



FRAGMENT_ITEMS CODE:

```
<?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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".itemsFragment"
    android:id="@+id/root_home"
    android:background="#C4AD9D">

    <RelativeLayout
        android:id="@+id/relativeLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        tools:ignore="MissingConstraints">

        <androidx.constraintlayout.widget.ConstraintLayout
            android:id="@+id/contraint"
            android:layout_width="match_parent"
            android:layout_height="match_parent">

            <LinearLayout
                android:id="@+id/header"
                android:layout_width="193dp"
                android:layout_height="57dp"
                android:layout_marginVertical="30dp"
                android:orientation="horizontal"
                tools:ignore="MissingConstraints">

                <TextView
                    android:id="@+id/tv_home"
                    android:layout_width="wrap_content"
                    android:layout_height="match_parent"
                    android:fontFamily="casual"
                    android:paddingLeft="15dp"
                    android:paddingTop="20dp"
                    android:text="List of Food Items"
                    android:textColor="#000"
                    android:textSize="25sp"
                    android:textStyle="bold" />

            </LinearLayout>

            <TextView
                android:id="@+id/tv_would_like_to_eat"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginStart="24dp"
                android:layout_marginTop="4dp"
                android:fontFamily="casual"
                android:paddingLeft="20dp"
                android:text="What would you like to eat"
                android:textColor="@color/black"
                android:textSize="25sp"
                android:textStyle="bold"
                app:layout_constraintStart_toStartOf="@+id/header"
                app:layout_constraintTop_toBottomOf="@+id/header" />

        </androidx.constraintlayout.widget.ConstraintLayout>

    </RelativeLayout>

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



```

<androidx.cardview.widget.CardView
    android:id="@+id/random_meal"
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:layout_marginStart="25dp"
    android:layout_marginTop="10dp"
    android:layout_marginEnd="25dp"
    android:elevation="2dp"
    app:cardCornerRadius="10dp"
    app:cardUseCompatPadding="true"
    app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@id/tv_would_like_to_eat">

    <ImageView
        android:id="@+id/img_random_meal"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:scaleType="centerCrop"
        android:src="@drawable/mealtest" />

</androidx.cardview.widget.CardView>

<TextView
    android:id="@+id/tv_over_pup_items"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="24dp"
    android:layout_marginTop="12dp"
    android:fontFamily="casual"
    android:text="popular items"
    android:textColor="@color/black"
    android:textSize="30sp"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@id/random_meal" />

<TextView
    android:layout_width="124dp"
    android:layout_height="37dp"
    android:fontFamily="cursive"
    android:text="Masala Dosa"
    android:textSize="23dp"
    android:textStyle="bold"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="70dp"
    tools:layout_editor_absoluteY="360dp" />

<TextView
    android:layout_width="109dp"
    android:layout_height="35dp"
    android:fontFamily="cursive"
    android:text="Bibimbap"
    android:textSize="23dp"
    android:textStyle="bold"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="217dp"
    tools:layout_editor_absoluteY="408dp" />

```



```
<TextView
    android:id="@+id/txt"
    android:layout_width="124dp"
    android:layout_height="33dp"
    android:fontFamily="cursive"
    android:text="Lasagna"
    android:textSize="23dp"
    android:textStyle="bold"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="70dp"
    tools:layout_editor_absoluteY="410dp" />
```

```
<TextView
    android:layout_width="114dp"
    android:layout_height="42dp"
    android:fontFamily="cursive"
    android:text="Acai Bowl"
    android:textSize="23dp"
    android:textStyle="bold"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="212dp"
    tools:layout_editor_absoluteY="360dp" />
```

```
<TextView
    android:id="@+id/tv_category"
    android:layout_width="106dp"
    android:layout_height="45dp"
    android:fontFamily="casual"
    android:text="category"
    android:textColor="#000"
    android:textSize="25sp"
    android:textStyle="bold"
    tools:layout_editor_absoluteX="16dp"
    tools:layout_editor_absoluteY="461dp" />
```

```
<ImageButton
    android:id="@+id/starter"
    android:layout_width="147dp"
    android:layout_height="87dp"
    android:background="@drawable/starters"
    android:clickable="true"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="36dp"
    tools:layout_editor_absoluteY="506dp" />
```

```
<ImageButton
    android:layout_width="147dp"
    android:layout_height="87dp"
    android:background="@drawable/maincourse"
    android:clickable="true"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="212dp"
    tools:layout_editor_absoluteY="506dp" />
```

```
<ImageButton
    android:layout_width="147dp"
    android:layout_height="87dp"
    android:background="@drawable/des"
    android:clickable="true"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="36dp"
```

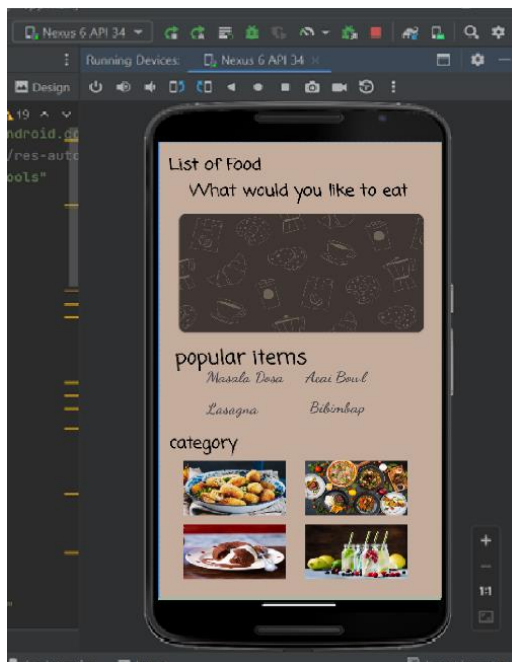
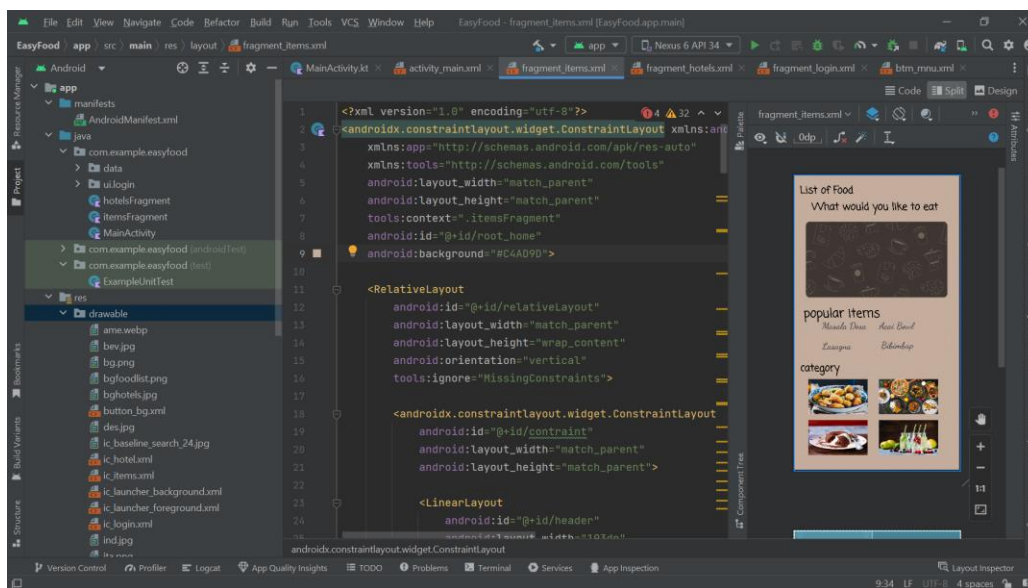
```

tools:layout_editor_absoluteY="608dp" />

<ImageButton
    android:layout_width="147dp"
    android:layout_height="87dp"
    android:background="@drawable/bev"
    android:clickable="true"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="212dp"
    tools:layout_editor_absoluteY="608dp" />

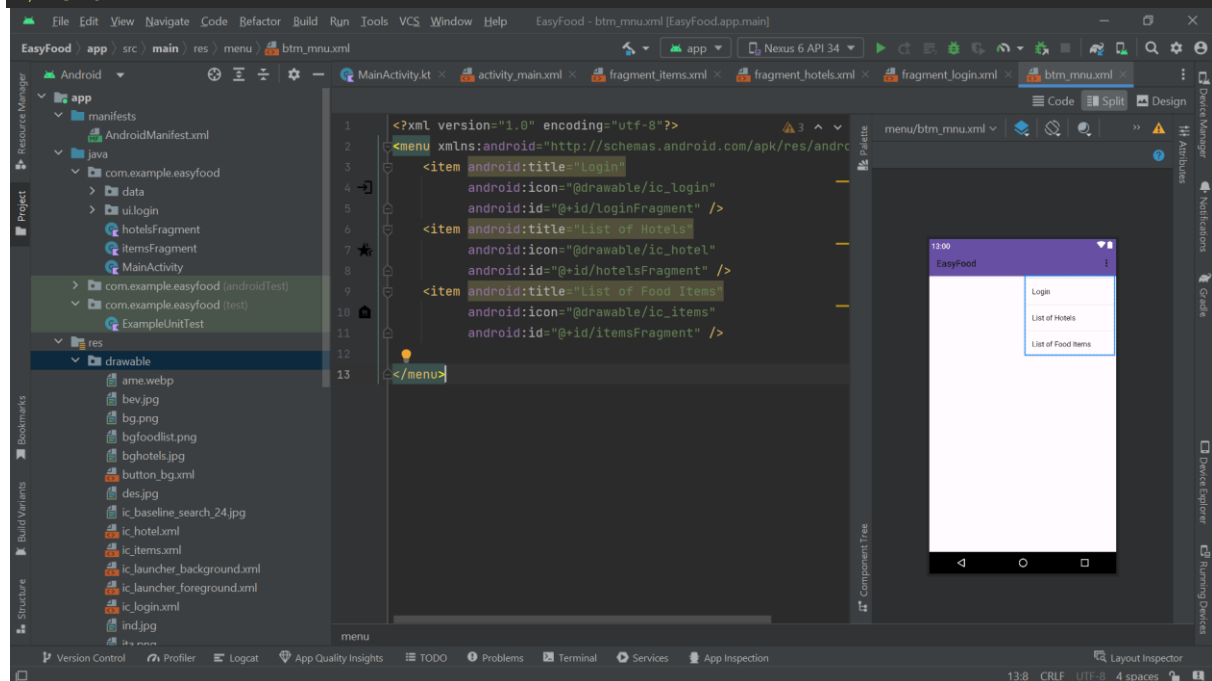
</androidx.constraintlayout.widget.ConstraintLayout>
</RelativeLayout>
</androidx.constraintlayout.widget.ConstraintLayout>

```



BTM_MNU CODE:

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:title="Login"
        android:icon="@drawable/ic_login"
        android:id="@+id/loginFragment" />
    <item android:title="List of Hotels"
        android:icon="@drawable/ic_hotel"
        android:id="@+id/hotelsFragment" />
    <item android:title="List of Food Items"
        android:icon="@drawable/ic_items"
        android:id="@+id/itemsFragment" />
</menu>
```



Activity_main code:

```
<?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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <fragment
        android:id="@+id/host_fragment"
        android:layout_width="0dp"
        android:layout_height="0dp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintBottom_toTopOf="@id/btm_nav"

        app:navGraph="@navigation/nav_graph"
```

```

        android:name="androidx.navigation.fragment.NavHostFragment"/>

        <com.google.android.material.bottomnavigation.BottomNavigationView
            android:id="@+id/btm_nav"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintBottom_toBottomOf="parent"
            app:menu="@menu/btm_mnu"/>

    </androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity code:

```

package com.example.easyfood

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import androidx.navigation.Navigation
import androidx.navigation.ui.NavigationUI
import com.google.android.material.bottomnavigation.BottomNavigationView

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val bottomNavigation =
            findViewById<BottomNavigationView>(R.id.btm_nav)
        val navController =
            Navigation.findNavController(this, R.id.host_fragment)

        NavigationUI.setupWithNavController(bottomNavigation, navController)
    }
}

```

Build gradle(Module:app) code:

```

plugins {
    id("com.android.application")
    id("org.jetbrains.kotlin.android")
}

android {
    namespace = "com.example.easyfood"
    compileSdk = 33

    defaultConfig {
        applicationId = "com.example.easyfood"
        minSdk = 24
        targetSdk = 33
        versionCode = 1
        versionName = "1.0"

        testInstrumentationRunner =
            "androidx.test.runner.AndroidJUnitRunner"
    }
}

```

```

    }

    buildTypes {
        release {
            isMinifyEnabled = false
            proguardFiles(
                getDefaultProguardFile("proguard-android-optimize.txt"),
                "proguard-rules.pro"
            )
        }
    }

    compileOptions {
        sourceCompatibility = JavaVersion.VERSION_1_8
        targetCompatibility = JavaVersion.VERSION_1_8
    }

    kotlinOptions {
        jvmTarget = "1.8"
    }

    buildFeatures {
        viewBinding = true
    }
}

dependencies {
    implementation("androidx.annotation:annotation:1.6.0")
    implementation("androidx.lifecycle:lifecycle-livedata-ktx:2.6.2")
    implementation("androidx.lifecycle:lifecycle-viewmodel-ktx:2.6.2")
    val nav_version = "2.7.3"
    implementation("androidx.core:core-ktx:1.9.0")
    implementation("androidx.appcompat:appcompat:1.6.1")
    implementation("com.google.android.material:material:1.9.0")
    implementation("androidx.constraintlayout:constraintlayout:2.1.4")
    testImplementation("junit:junit:4.13.2")
    androidTestImplementation("androidx.test.ext:junit:1.1.5")
    androidTestImplementation("androidx.test.espresso:espresso-core:3.5.1")

    // navigation component
    implementation("androidx.navigation:navigation-fragment-ktx:$nav_version")
    implementation("androidx.navigation:navigation-ui-ktx:$nav_version")

    //intuit
    implementation("com.intuit.sdp:sdp-android:1.0.6")
    implementation("com.intuit.ssp:ssp-android:1.0.6")

    //gif
    implementation("pl.droidsonroids.gif:android-gif-drawable:1.2.17")
}

```

Files created:

