MainActivity

Overview

This file contains the MainActivity class, which is the entry point of the application. It is responsible for setting up the main UI and handling the navigation between different screens.

Code Explanation

```
package com.example.vociapp // Package declaration
// Imports for necessary classes and components
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.enableEdgeToEdge
import androidx.compose.material3.Scaffold
import androidx.navigation.compose.rememberNavController
import com.example.vociapp.ui.components.BottomBar
import com.example.vociapp.ui.navigation.NavGraph
import com.example.vociapp.ui.theme.VociAppTheme
class MainActivity : ComponentActivity() { // Class declaration extending
ComponentActivity
    override fun onCreate(savedInstanceState: Bundle?) { // onCreate method,
called when activity is created
        super.onCreate(savedInstanceState) // Call to superclass onCreate
        enableEdgeToEdge() // Enables edge-to-edge display
        setContent { // Sets content of the activity using Jetpack Compose
            VociAppTheme { // Applies the app's theme
                val navController = rememberNavController() // Creates a
NavHostController for navigation
                Scaffold( // Creates a Scaffold layout with a bottom bar
                    bottomBar = { BottomBar(navController) } // Sets the
BottomBar component
                ) { innerPadding -> // Provides padding values for the content
                    NavGraph(navController = navController, paddingValues =
innerPadding) // Sets up the navigation graph
                }
        }
    }
}
```

Breakdown:

1. **Package Declaration:** package com.example.vociapp defines the package the class belongs to.

- 2. **Imports:** The **import** statements bring in necessary classes and components from various libraries, such as Jetpack Compose and Navigation.
- 3. **Class Declaration:** class MainActivity: ComponentActivity() declares the MainActivity class, inheriting from ComponentActivity, which is the base class for activities in Android.
- 4. **onCreate() method:** This method is called when the activity is first created. It's responsible for initializing the UI and setting up the navigation.
 - super.onCreate(savedInstanceState) calls the superclass's onCreate() method to perform default initialization.
 - enableEdgeToEdge() enables edge-to-edge display for the activity, making the content extend to the edges of the screen.
 - setContent { ... } sets the content of the activity using Jetpack Compose.
 - VociAppTheme { ... } applies the app's custom theme.
 - val navController = rememberNavController() creates a NavHostController to manage navigation between screens.
 - Scaffold { ... } creates a Scaffold layout, providing a structure for the app's UI with a bottom bar.
 - o bottomBar = { BottomBar(navController) } sets the BottomBar component as the bottom bar of the Scaffold.
 - NavGraph(navController = navController, paddingValues = innerPadding) sets up the navigation graph, defining the screens and their routes.

Related Files

- BottomBar.kt: Defines the bottom navigation bar component.
- NavGraph.kt: Sets up the navigation graph for the app.
- VociAppTheme.kt: Defines the app's custom theme.

Additional Notes

- MainActivity is the entry point of the application and is responsible for initializing the UI and navigation.
- It uses Jetpack Compose to define the UI and Navigation component to manage navigation between screens.
- The Scaffold component provides a structure for the UI with a bottom bar.
- The BottomBar component is used for navigation between screens.
- The NavGraph component defines the screens and their routes.