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Class: BSIT-M2 (2020-2024)

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Submitted to: Professor Jameel

Subject: Android Development

Assignment: 03  
  
Topic: Notes App

**Description**

1. **activity\_main.xml**:  
    This XML file defines the layout for the main activity of the app. It uses a RelativeLayout as the root layout containing a TextView for the app title, a ListView to display the notes dynamically on the go, and a LinearLayout at the bottom containing three ImageButton icon views for adding, editing, and deleting notes.
2. **MainActivity.java**:   
    This is the main activity java class of the app. It handles the user interactions and manages the notes. Here's an overview of its functionality:
   * The activity first initializes the UI components, including the ListView for displaying notes and the ImageButton icon views for adding, editing, and deleting notes.
   * It also sets up event listeners for button clicks and item clicks in the ListView.
   * It uses a custom NotesDbHelper class to handle database operations for storing and retrieving notes from the database.
   * The loadNotes() method retrieves notes from the database and updates the notesList ArrayList and the adapter to display the notes in the ListView.
   * The addNote(), editNote(), and deleteNote() methods handle the corresponding actions respectively.
   * The onNoteAddedOrEdited() method is implemented from the AddEditNoteDialog.AddEditNoteListener interface and is called when a note is added or edited in the dialog.
3. **NotesDbHelper.java**:   
    This class extends SQLiteOpenHelper and provides methods to create and manage the notes database. It creates a table for storing notes and provides methods for inserting, editing and deleting notes.
4. **NotesContract.java:** This class defines the contract for the notes table, including the table name and column names.
5. **AddEditNoteDialog.java:** This class extends AppCompatDialogFragment and represents a dialog for adding or editing a note. It uses a custom layout defined in dialog\_add\_edit\_note.xml. The dialog contains an EditText where the users can enter the note text. When the user saves the note, the onNoteAddedOrEdited() method is called on the AddEditNoteListener to handle the note addition or edition.
6. **dialog\_add\_edit\_note.xml**:   
    This XML file defines the layout for the dialog used in the AddEditNoteDialog class. It contains an EditText where the user can enter the note text.

Overall, this code sets up a basic notes app with functionalities for adding, editing, and deleting notes using an SQLite database to store the notes.

**Code**

Complete code can be found on my [GitHub](https://github.com/MatrixUsman/BSITM2/tree/main/Semester%206/Android%20Devlopment/Assignment_4/Notes%20App/NotesApp).

Link to [APK](https://github.com/MatrixUsman/BSITM2/blob/main/Semester%206/Android%20Devlopment/Assignment_4/Notes%20App/Notes.apk)

[Compressed Code zip](https://github.com/MatrixUsman/BSITM2/blob/main/Semester%206/Android%20Devlopment/Assignment_4/Notes%20App/Notes%20App.zip)

**Screenshots**

 