

MainActivity.java (Single activity for the entire app)---->

```
public class MainActivity extends AppCompatActivity {

    private static final int RC_SIGN_IN = 123;
    private GoogleSignInClient mGoogleSignInClient;
    private boolean isLoggedIn = false;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        GoogleSignInOptions gso = new
GoogleSignInOptions.Builder(GoogleSignInOptions.DEFAULT_SIGN_IN)
            .requestEmail()
            .build();
        mGoogleSignInClient = GoogleSignIn.getClient(this, gso);
        isLoggedIn = checkLoggedInUser();

        if (!isLoggedIn) {
            showLoginScreen();
        } else {
            showNotesScreen();
        }
    }

    private boolean checkLoggedInUser() {
        return false; // Placeholder, replace with actual implementation
    }

    private void showLoginScreen() {
    }

    private void showNotesScreen() {
        getSupportFragmentManager().beginTransaction()
            .replace(R.id.fragment_container, new NotesFragment())
            .commit();
    }

    @Override
    protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
        super.onActivityResult(requestCode, resultCode, data);

        if (requestCode == RC_SIGN_IN) {
            Task<GoogleSignInAccount> task =
GoogleSignIn.getSignedInAccountFromIntent(data);
            handleSignInResult(task);
        }
    }
}
```

```

    }

    private void handleSignInResult(Task<GoogleSignInAccount> completedTask) {
        try {
            GoogleSignInAccount account = completedTask.getResult(ApiException.class);
            isLoggedIn = true;
            showNotesScreen();
        } catch (ApiException e) {
            Log.w("GoogleSignIn", "signInResult: failed code=" + e.getStatusCode());
        }
    }
}

```

NotesFragment.java (Fragment for displaying notes using RecyclerView)====>

```

public class NotesFragment extends Fragment {

    private RecyclerView recyclerView;
    private List<String> notesList = new ArrayList<>();
    private NotesAdapter notesAdapter;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_notes, container, false);

        recyclerView = view.findViewById(R.id.recyclerView);
        recyclerView.setLayoutManager(new LinearLayoutManager(getContext()));

        notesAdapter = new NotesAdapter(notesList);
        recyclerView.setAdapter(notesAdapter);
        notesList.add("Note 1");
        notesList.add("Note 2");
        notesList.add("Note 3");

        view.findViewById(R.id.btnAddNote).setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
            }
        });

        return view;
    }
}

```

NotesAdapter.java (RecyclerView adapter for displaying notes)----->

```

public class NotesAdapter extends RecyclerView.Adapter<NotesAdapter.ViewHolder> {

    private List<String> notesList;

    public NotesAdapter(List<String> notesList) {
        this.notesList = notesList;
    }

    @NonNull
    @Override
    public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View view = LayoutInflater.from(parent.getContext()).inflate(R.layout.item_note, parent,
false);
        return new ViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull ViewHolder holder, int position) {
        String note = notesList.get(position);
        holder.bind(note);
    }

    @Override
    public int getItemCount() {
        return notesList.size();
    }

    public static class ViewHolder extends RecyclerView.ViewHolder {

        private TextView txtNote;

        public ViewHolder(@NonNull View itemView) {
            super(itemView);
            txtNote = itemView.findViewById(R.id.txtNote);
        }

        public void bind(String note) {
            txtNote.setText(note);
        }
    }
}

```

----->
item_note.xml (Layout file for individual note item in RecyclerView)----->

```

<!-- Replace with your desired layout for individual note item -->
<TextView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/txtNote"

```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:padding="16dp"/>
```

----->

fragment_notes.xml (Layout file for NotesFragment)----->

```
<!-- Replace with your desired layout for NotesFragment -->
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <RecyclerView
        android:id="@+id/recyclerView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:padding="16dp"/>

    <Button
        android:id="@+id/btnAddNote"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Add Note"
        android:layout_alignParentBottom="true"
        android:layout_alignParentEnd="true"
        android:layout_margin="16dp"/>
</RelativeLayout>
```

----->