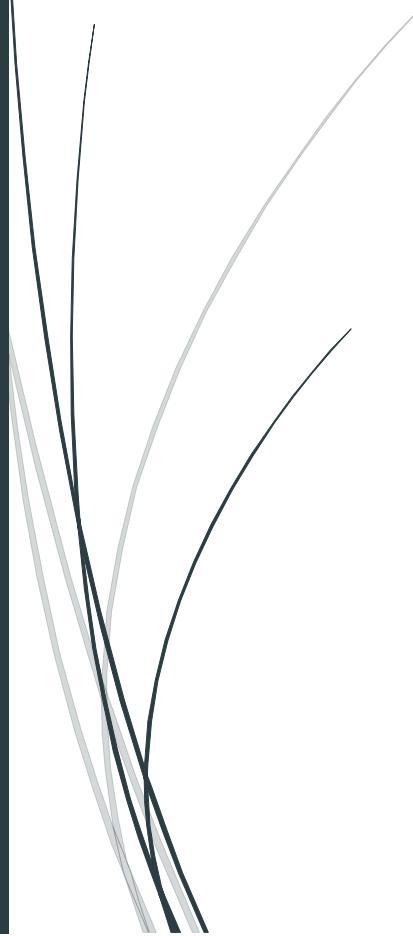




MOBILE APPLICATION DEVELOPMENT

APP JOURNAL



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<u>APP: 1</u>	<u>Hello Word</u>	<u>Date:</u>	4 Dec 24
<u>Code:</u>	package com.example.helloworldapp; import android.os.Bundle; import androidx.appcompat.app.AppCompatActivity; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); } }		

<u>Output:</u>	
----------------	--

<u>APP: 2</u>	<u>Calculator</u>	<u>Date:</u> 26 Dec 24
<u>Code:</u>	<pre> public class MainActivity extends AppCompatActivity { TextView resultText; String current = ""; double firstNum = 0; String operator = ""; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); resultText = findViewById(R.id.resultText); setNumberClick(R.id.btn0, "0"); setNumberClick(R.id.btn1, "1"); setNumberClick(R.id.btn2, "2"); setNumberClick(R.id.btn3, "3"); setNumberClick(R.id.btn4, "4"); setNumberClick(R.id.btn5, "5"); setNumberClick(R.id.btn6, "6"); setNumberClick(R.id.btn7, "7"); setNumberClick(R.id.btn8, "8"); setNumberClick(R.id.btn9, "9"); setNumberClick(R.id.btnDot, "."); findViewById(R.id.btnPlus).setOnClickListener(v -> setOperator("+")); findViewById(R.id.btnMinus).setOnClickListener(v -> setOperator("-")); findViewById(R.id.btnMultiply).setOnClickListener(v -> setOperator("*")); findViewById(R.id.btnDivide).setOnClickListener(v -> setOperator("/")); findViewById(R.id.btnEquals).setOnClickListener(v -> calculate()); findViewById(R.id.btnC).setOnClickListener(v -> clear()); } private void setNumberClick(int id, String num) { findViewById(id).setOnClickListener(v -> { current += num; resultText.setText(current); }); } private void setOperator(String op) { firstNum = Double.parseDouble(current); operator = op; current = ""; } private void calculate() { double secondNum = Double.parseDouble(current); double result = 0; switch (operator) { case "+": result = firstNum + secondNum; break; case "-": result = firstNum - secondNum; break; case "*": result = firstNum * secondNum; break; case "/": result = secondNum != 0 ? firstNum / secondNum : 0; break; } resultText.setText(result); } } </pre>	

```
        }  
        resultText.setText(String.valueOf(result));  
        current = String.valueOf(result);  
    }  
  
    private void clear() {  
        current = "";  
        firstNum = 0;  
        operator = "";  
        resultText.setText("0");  
    }  
}
```

Output:



<u>APP: 3</u>	<u>CA user login</u>	<u>Date:</u>	11 Feb 25
<u>Code:</u>	<p>MainActivity.java</p> <pre> package com.example.ca; import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.Toast; import androidx.activity.EdgeToEdge; import androidx.appcompat.app.AppCompatActivity; import androidx.core.graphics.Insets; import androidx.core.view.ViewCompat; import androidx.core.view.WindowInsetsCompat; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); EdgeToEdge.enable(this); setContentView(R.layout.activity_main); ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> { Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars()); v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom); return insets; }); } public void Ok(View view){ Toast.makeText(this, "Going to Next Page", Toast.LENGTH_SHORT).show(); startActivity(new Intent(this, SecondActivity.class)); } } </pre> <p>SecondActivity.java</p> <pre> package com.example.ca; import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.Toast; import androidx.activity.EdgeToEdge; import androidx.appcompat.app.AppCompatActivity; import androidx.core.graphics.Insets; import androidx.core.view.ViewCompat; import androidx.core.view.WindowInsetsCompat; public class SecondActivity extends AppCompatActivity { </pre>		

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.second_activity);
    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
        Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
        v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
        return insets;
    });
}

public void Ok(View view){
    Toast.makeText(this, "Going to Finish Page", Toast.LENGTH_SHORT).show();
    startActivity(new Intent(this, ThirdActivity.class));
}
}

```

ThirdActivity.java

```

package com.example.ca;

import android.os.Bundle;

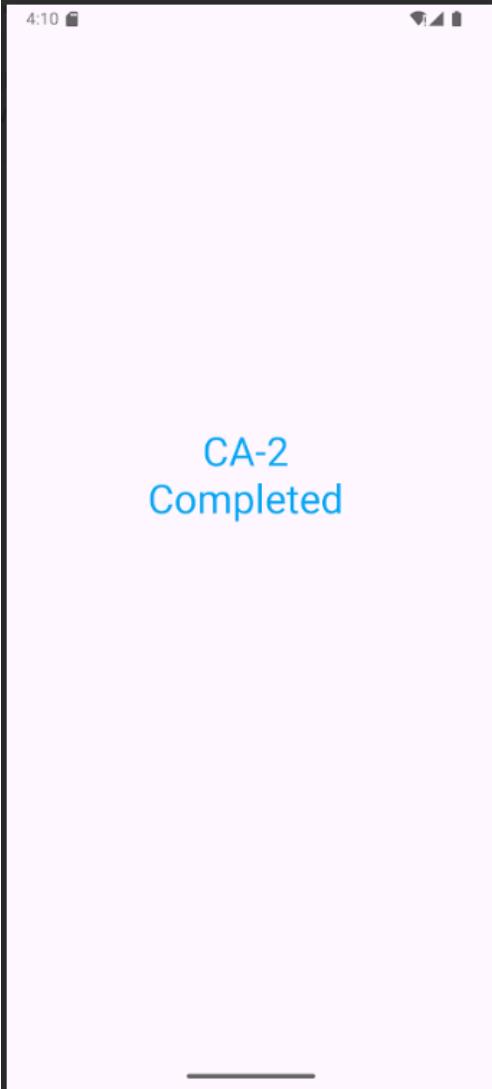
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class ThirdActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.third_activity);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
            Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
            return insets;
        });
    }
}

```

Output:

	<p>Registration Page</p> <p>Username <input type="text" value="Khione"/></p> <p>Password <input type="password" value="*****"/></p> <p><input type="button" value="Ok"/></p>	<p>Welcome</p> <p>Your username is:</p> <p><input type="text" value="Khione"/></p> <p><input type="button" value="OK"/></p>
	 <p>CA-2 Completed</p>	

<u>App : 4</u>	Motivational App	<u>Date:</u> 13 Feb 25
<u>Code:</u>	<h3>MainActivity.java</h3> <pre> package com.example.pa; import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.Toast; import androidx.activity.EdgeToEdge; import androidx.appcompat.app.AppCompatActivity; import androidx.core.graphics.Insets; import androidx.core.view.ViewCompat; import androidx.core.view.WindowInsetsCompat; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); EdgeToEdge.enable(this); setContentView(R.layout.activity_main); ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> { Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars()); v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom); return insets; }); } public void OpenQuote(View view) { Toast.makeText(this, "Wait for Quote to load", Toast.LENGTH_SHORT).show(); startActivity(new Intent(MainActivity.this, SecondActivity.class)); } } </pre> <h3>SecondActivity.java</h3> <pre> package com.example.pa; import android.os.Bundle; import androidx.activity.EdgeToEdge; import androidx.appcompat.app.AppCompatActivity; public class SecondActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); EdgeToEdge.enable(this); setContentView(R.layout.activity_second); } } </pre>	

Output:



<u>APP: 5</u>	Code snippet App with feature given in class	<u>Date:</u>	27 Feb 25
<u>Code:</u>	<p>MainActivity.java</p> <pre> package com.example.codesinppetapp; import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.Toast; import androidx.activity.EdgeToEdge; import androidx.appcompat.app.AppCompatActivity; import androidx.core.graphics.Insets; import androidx.core.view.ViewCompat; import androidx.core.view.WindowInsetsCompat; import android.os.Handler; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); EdgeToEdge.enable(this); setContentView(R.layout.activity_main); ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> { Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars()); v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom); return insets; }); // start intent after 3 seconds new Handler().postDelayed(() -> { Intent intent = new Intent(MainActivity.this, EditorActivity.class); startActivity(intent); }, 3000); } } </pre> <p>EditorActivity.java</p> <pre> package com.example.codesinppetapp; import android.content.Intent; import android.database.Cursor; import android.database.sqlite.SQLiteDatabase; import android.graphics.Typeface; import android.os.Bundle; import android.view.View; import android.view.inputmethod.TextAppearanceInfo; import android.widget.Button; import android.widget.LinearLayout; </pre>		

```

import android.widget.TextView;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.content.ContextCompat;

public class EditorActivity extends AppCompatActivity {
    private static final String DATABASE_NAME = "snippets.db";
    private static final String TABLE_NAME = "snippets";
    private SQLiteDatabase database;
    private LinearLayout snippetsContainer;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_editor);

        Button createButton = findViewById(R.id.buttonCreate);
        snippetsContainer = findViewById(R.id.snippetsContainer);

        // Open database
        database = openOrCreateDatabase(DATABASE_NAME, MODE_PRIVATE, null);

        createButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(EditorActivity.this, CreateActivity.class));
            }
        });
        loadSnippets();
    }

    public void CreateSnippet(View view) {
        Toast.makeText(this, "Wait for it to load", Toast.LENGTH_SHORT).show();
        startActivity(new Intent(EditorActivity.this, CreateActivity.class));
    }

    private void loadSnippets() {
        snippetsContainer.removeAllViews(); // Clear previous views. & if new is created it imedaiatly adds here

        Cursor cursor = database.query(TABLE_NAME, new String[]{"id", "title", "content"}, null, null, null, null, "id DESC");

        if (cursor != null && cursor.moveToFirst()) {
            do {
                final int snippetId = cursor.getInt(0);
                // Declare it as final here inorder to select a particular snippet to edit or delete
                String title = cursor.getString(1);
                String content = cursor.getString(2);

                // Create a Card-like Layout for better visibility
                LinearLayout snippetLayout = new LinearLayout(this);

```

```

snippetLayout.setOrientation(LinearLayout.VERTICAL);
snippetLayout.setPadding(20, 20, 20, 20);
snippetLayout.setBackgroundResource(R.drawable.snippet_background); // Add background

// Title TextView
TextView titleView = new TextView(this);
titleView.setText("•\uFE0F" + " " + title);
// Set color from colors.xml
titleView.setTextColor(ContextCompat.getColor(this, R.color.white));
titleView.setTextSize(20); // Increase font size
titleView.setTypeface(null, Typeface.BOLD);
titleView.setPadding(10, 10, 10, 10);

// Content TextView
TextView contentView = new TextView(this);
contentView.setText(content);
contentView.setTextColor(ContextCompat.getColor(this, R.color.white));
contentView.setTextSize(18); // Increase font size
contentView.setPadding(10, 10, 10, 10);

// When clicked, open EditSnippetActivity to edit and delete
// not edited to work with images (new feature given in class )
// snippetLayout.setOnClickListener(v -> {
//     Intent intent = new Intent(EditorActivity.this, EditDeleteSnippetActivity.class);
//     intent.putExtra("id", snippetId);
//     intent.putExtra("title", title);
//     intent.putExtra("content", content);
//     startActivity(intent);
// });

// Add views to snippet layout
snippetLayout.addView(titleView);
snippetLayout.addView(contentView);
// Add snippet layout to main container
snippetsContainer.addView(snippetLayout);

} while (cursor.moveToNext());

        cursor.close();
    }
}

@Override
protected void onResume() {
    super.onResume();
    loadSnippets(); // Reload snippets when returning to this activity
}

@Override
protected void onDestroy() {
    super.onDestroy();
    if (database != null) {
        database.close();
    }
}
}

```

CreateActivity.java

```
package com.example.codesinppetapp;

import android.content.ContentValues;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;

import android.graphics.Bitmap;

import android.net.Uri;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import java.io.ByteArrayOutputStream;
import java.io.IOException;

public class CreateActivity extends AppCompatActivity {

    private static final String DATABASE_NAME = "snippets.db";
    private static final String TABLE_NAME = "snippets";
    private static final String COLUMN_ID = "id";
    private static final String COLUMN_TITLE = "title";
    private static final String COLUMN_CONTENT = "content";
    private static final String COLUMN_IMAGE = "image"; // New column for image

    private static final int PICK_IMAGE_REQUEST = 1;

    private EditText editTextTitle, editTextContent;
    private ImageView imageViewSnippet;
    private Button buttonSelectImage;
    private SQLiteDatabase database;

    private byte[] imageBytes; // Store image data

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_create);

        editTextTitle = findViewById(R.id.editTextTitle);
        editTextContent = findViewById(R.id.editTextContent);
        imageViewSnippet = findViewById(R.id.imageViewSnippet);
        buttonSelectImage = findViewById(R.id.buttonSelectImage);
        Button buttonSave = findViewById(R.id.buttonSave);

        // Open or create database
        database = openOrCreateDatabase(DATABASE_NAME, MODE_PRIVATE, null);

        // Create table if not exists
    }
}
```

```

String createTable = "CREATE TABLE IF NOT EXISTS " + TABLE_NAME + "(" +
    COLUMN_ID + " INTEGER PRIMARY KEY AUTOINCREMENT, " +
    COLUMN_TITLE + " TEXT, " +
    COLUMN_CONTENT + " TEXT, " +
    COLUMN_IMAGE + " BLOB"); // Image stored as BLOB (big chunk of data)
database.execSQL(createTable);

// Select Image Button Click
buttonSelectImage.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        pickImage();
    }
});

// Save Snippet Button Click
buttonSave.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        saveSnippet();
    }
});

// Go back button
public void GoBack(View view) {
    Toast.makeText(this, "Going back", Toast.LENGTH_SHORT).show();
    startActivity(new Intent(CreateActivity.this, EditorActivity.class));
}

// Open Gallery to Select Image
private void pickImage() {
    Intent intent = new Intent(Intent.ACTION_PICK,
MediaStore.Images.Media.EXTERNAL_CONTENT_URI);
    startActivityForResult(intent, PICK_IMAGE_REQUEST);
}

// Handle Selected Image Result
@Override
protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if (requestCode == PICK_IMAGE_REQUEST && resultCode == RESULT_OK && data != null) {
        Uri imageUri = data.getData();
        try {
            Bitmap bitmap = MediaStore.Images.Media.getBitmap(getContentResolver(), imageUri);
            imageViewSnippet.setImageBitmap(bitmap);
            imageBytes = getBytesFromBitmap(bitmap); // Convert image to byte array
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}

// Convert Bitmap to Byte Array for Storage
private byte[] getBytesFromBitmap(Bitmap bitmap) {
    ByteArrayOutputStream stream = new ByteArrayOutputStream();

```

```

        bitmap.compress(Bitmap.CompressFormat.PNG, 100, stream);
        return stream.toByteArray();
    }

    private void saveSnippet() {
        String title = editTextTitle.getText().toString().trim();
        String content = editTextContent.getText().toString().trim();

        if (title.isEmpty() || content.isEmpty()) {
            Toast.makeText(this, "Please enter both title and content", Toast.LENGTH_SHORT).show();
            return;
        }

        ContentValues values = new ContentValues();
        values.put(COLUMN_TITLE, title);
        values.put(COLUMN_CONTENT, content);

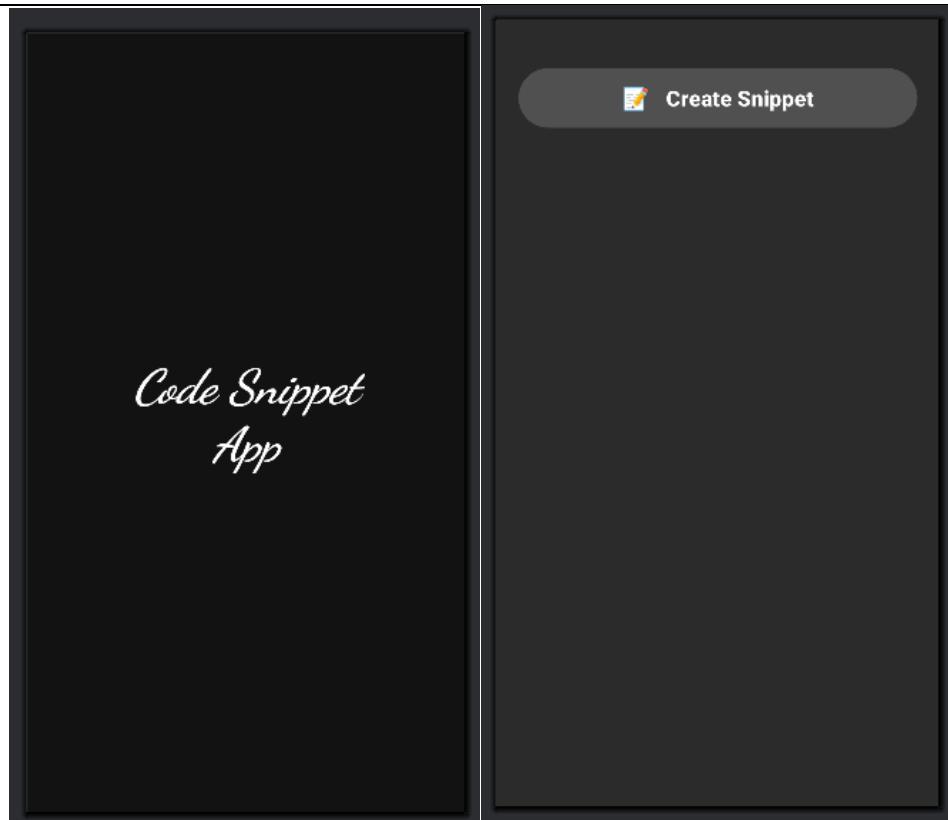
        if (imageBytes != null) {
            values.put(COLUMN_IMAGE, imageBytes); // Save the selected image
        } else {
            values.putNull(COLUMN_IMAGE); // If no image is selected, store null
        }

        long result = database.insert(TABLE_NAME, null, values);
        if (result != -2) {
            Toast.makeText(this, "Snippet saved!", Toast.LENGTH_SHORT).show();
            finish();
        } else {
            Toast.makeText(this, "Error saving snippet", Toast.LENGTH_SHORT).show();
        }
    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
        if (database != null) {
            database.close();
        }
    }
}

```

Output:



This is a form screen for creating a snippet. It features a blue double-line border around the input fields. The fields include "Enter Title" (with a placeholder), "Enter Content" (with a placeholder), and a large gray rectangular area for image selection. Below these are three buttons: "Select Image", "Save Snippet" (with a checked green checkmark), and "Back".

Enter Title
Enter Content
Select Image
✓ Save Snippet
← Back

Create Snippet

test

jsdhfhdkj

final final test before review

just checking for bugs

Final test

Final test before going to sleep

i did it!! I changed the text color for displaying

You have to call the color.xml file
import
androidx.core.content.ContextCompat;

then use it like this

```
// Set color from colors.xml  
titleView.setTextColor  
(ContextCompat.getColor(this,  
R.color.white));
```

i don't know how

to make the text more visible after i save it

Designing through code want

If you click on an content and it doesn't adjust to what u want then u can do it through coding. both in the xml and java

Enter Title

Enter Content

Select Image

 Save Snippet

 Back

← Select a photo

Option to add image

<u>App: 6</u>	Internship Finder App	<u>Date:</u>	27 Mar 25
<u>Code:</u>	<p>MainActivity.java</p> <p>(Open welcome screen)</p> <pre>package com.example.pa3; import android.content.Intent; import android.os.Bundle; import androidx.activity.EdgeToEdge; import androidx.appcompat.app.AppCompatActivity; import androidx.core.graphics.Insets; import androidx.core.view.ViewCompat; import androidx.core.view.WindowInsetsCompat; import android.os.Handler; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); EdgeToEdge.enable(this); setContentView(R.layout.activity_main); ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> { Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars()); v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom); return insets; }); // start intent after 3 seconds new Handler().postDelayed(() -> { Intent intent = new Intent(MainActivity.this, Home.class); startActivity(intent); }, 3000); } }</pre> <p>Home.java</p> <pre>package com.example.pa3; import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.Button; import android.widget.Toast; import androidx.activity.EdgeToEdge; import androidx.appcompat.app.AppCompatActivity; public class Home extends AppCompatActivity{</pre>		

```

// private LinearLayout snippetsContainer;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.home_activity);

    Button btnStart = findViewById(R.id.btnStart);

    btnStart.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            startActivity(new Intent(Home.this, FindInternship.class));
        }
    });
}

public void startLooking(View view) {
    Toast.makeText(this, "Wait for it to load", Toast.LENGTH_SHORT).show();
    startActivity(new Intent(Home.this, FindInternship.class));
}
}

```

FindInternship.java

```

package com.example.pa3;

import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;
import android.widget.LinearLayout;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import java.util.ArrayList;
import java.util.List;

public class FindInternship extends AppCompatActivity {

    private EditText editTextSearch;
    private Button buttonSearch, btnBack;
    private LinearLayout resultsContainer;
    private List<Internship> internshipList = new ArrayList<>();

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.find_activity);

        editTextSearch = findViewById(R.id.editTextSearch);
        buttonSearch = findViewById(R.id.buttonSearch);
        btnBack = findViewById(R.id.btnBack);
        resultsContainer = findViewById(R.id.resultsContainer);
    }
}

```

```

loadDummyData();

buttonSearch.setOnClickListener(v -> searchInternship());

btnBack.setOnClickListener(v -> finish());
}

private void loadDummyData() {
    internshipList.add(new Internship("Software Engineer Intern", "Google", "Work on real-world projects using AI and cloud computing.", "9 AM - 5 PM", "3 Months", "Mountain View, CA"));
    internshipList.add(new Internship("Software Engineer Intern", "Amazon", "Work on projects using AI.", "9 AM - 5 PM", "6 Months", "Goa, GA"));

    internshipList.add(new Internship("Data Science Intern", "Facebook", "Analyze large datasets to gain business insights.", "10 AM - 6 PM", "6 Months", "Menlo Park, CA"));
    internshipList.add(new Internship("Marketing Intern", "Amazon", "Develop creative marketing strategies for product launches.", "9 AM - 4 PM", "4 Months", "Seattle, WA"));
    internshipList.add(new Internship("UI/UX Designer Intern", "Apple", "Design intuitive interfaces for mobile and web applications.", "10 AM - 5 PM", "5 Months", "Cupertino, CA"));
    internshipList.add(new Internship("Cybersecurity Intern", "Microsoft", "Work on securing networks and preventing cyber attacks.", "8 AM - 4 PM", "6 Months", "Redmond, WA"));
    internshipList.add(new Internship("AI Research Intern", "OpenAI", "Develop and train state-of-the-art AI models for real-world applications.", "9 AM - 6 PM", "3 Months", "San Francisco, CA"));
    internshipList.add(new Internship("Blockchain Developer Intern", "Ethereum Foundation", "Contribute to open-source blockchain projects and smart contract development.", "10 AM - 5 PM", "4 Months", "Remote"));
    internshipList.add(new Internship("Embedded Systems Intern", "Intel", "Work on IoT and hardware-optimized software development.", "9 AM - 5 PM", "5 Months", "Santa Clara, CA"));
    internshipList.add(new Internship("Game Developer Intern", "Epic Games", "Develop and test new game mechanics using Unreal Engine.", "11 AM - 7 PM", "3 Months", "Cary, NC"));
    internshipList.add(new Internship("Cloud Computing Intern", "AWS", "Learn and implement scalable cloud infrastructure and DevOps practices.", "8 AM - 4 PM", "6 Months", "Seattle, WA"));
}

private void searchInternship() {
    String searchText = editTextSearch.getText().toString().trim().toLowerCase();
    resultsContainer.removeAllViews();

    if (searchText.isEmpty()) {
        Toast.makeText(this, "Please enter a job title to search!", Toast.LENGTH_SHORT).show();
        return;
    }

    boolean found = false;
    for (Internship internship : internshipList) {
        if (internship.getTitle().toLowerCase().contains(searchText)) {
            found = true;
            addResultView(internship);
        }
    }

    if (!found) {
        Toast.makeText(this, "No internships found!", Toast.LENGTH_SHORT).show();
    }
}

private void addResultView(Internship internship) {
}

```

```

        TextView textView = new TextView(this);
        textView.setText(" ◆ " + internship.getTitle() + "\n  " + internship.getCompany());
        textView.setPadding(20, 20, 20, 20);
        textView.setBackgroundColor(getResources().getColor(android.R.color.darker_gray));
        textView.setTextSize(16);

        textView.setOnClickListener(v -> {
            Intent intent = new Intent(FindInternship.this, Details.class);
            intent.putExtra("title", internship.getTitle());
            intent.putExtra("company", internship.getCompany());
            intent.putExtra("description", internship.getDescription());
            intent.putExtra("workingTime", internship.getWorkingTime());
            intent.putExtra("duration", internship.getDuration());
            intent.putExtra("location", internship.getLocation());
            startActivity(intent);
        });

        LinearLayout.LayoutParams params = new LinearLayout.LayoutParams(
                LinearLayout.LayoutParams.MATCH_PARENT,
                LinearLayout.LayoutParams.WRAP_CONTENT);
        params.setMargins(0, 10, 0, 10);
        textView.setLayoutParams(params);

        resultsContainer.addView(textView);
    }

    static class Internship {
        private final String title;
        private final String company;
        private final String description;
        private final String workingTime;
        private final String duration;
        private final String location;

        public Internship(String title, String company, String description, String workingTime, String duration, String location) {
            this.title = title;
            this.company = company;
            this.description = description;
            this.workingTime = workingTime;
            this.duration = duration;
            this.location = location;
        }

        public String getTitle() { return title; }
        public String getCompany() { return company; }
        public String getDescription() { return description; }
        public String getWorkingTime() { return workingTime; }
        public String getDuration() { return duration; }
        public String getLocation() { return location; }
    }
}

```

Details.java

```
package com.example.pa3;
```

```

import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;

public class Details extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.details_activity);

        TextView textViewDetails = findViewById(R.id.textTitle);
        Button btnBack = findViewById(R.id.btnBack);

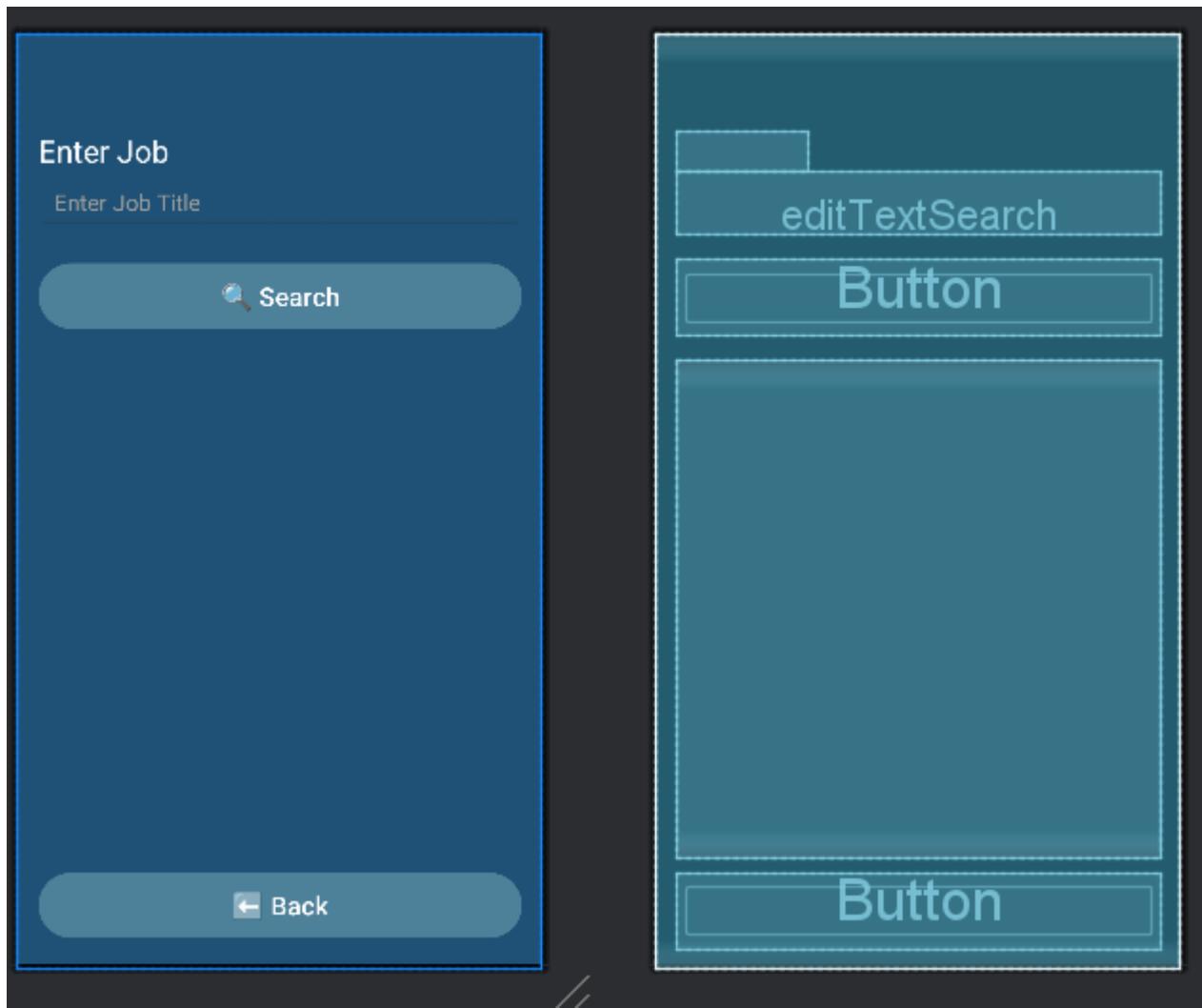
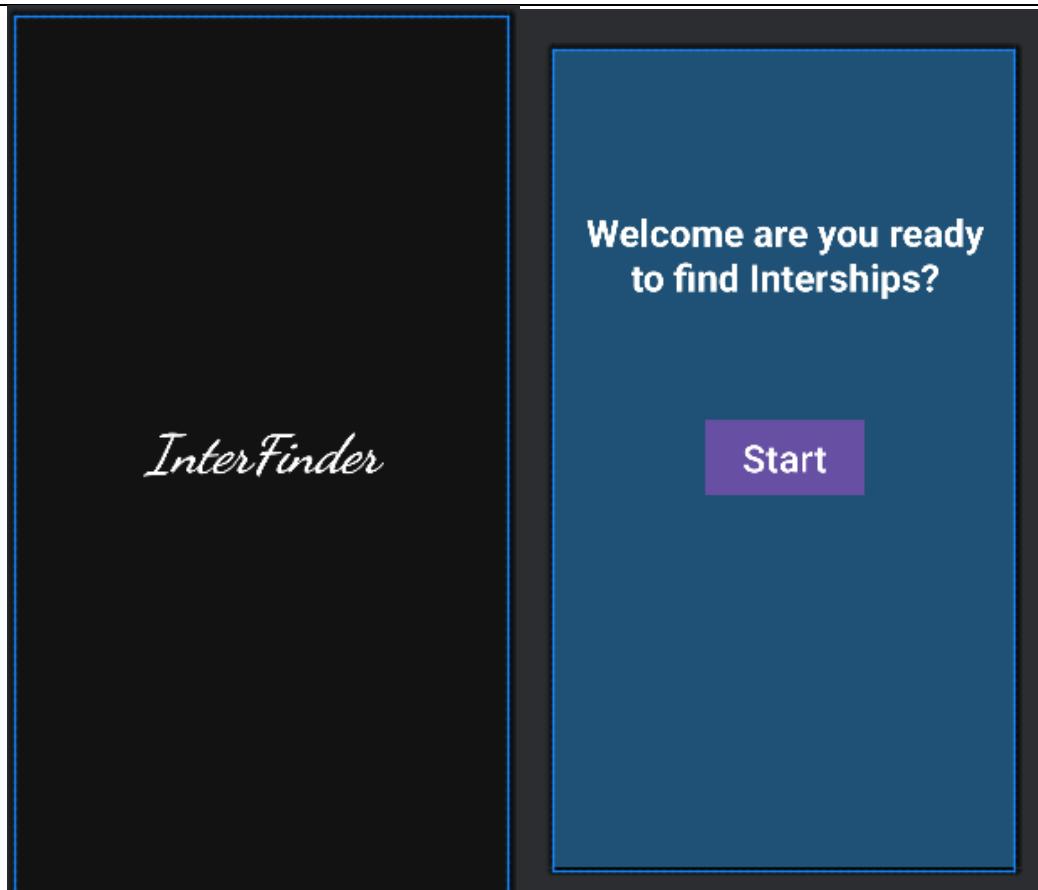
        // Get internship details from intent
        Intent intent = getIntent();
        String details = "Title: " + intent.getStringExtra("title") + "\n" +
                "Company: " + intent.getStringExtra("company") + "\n" +
                "Description: " + intent.getStringExtra("description") + "\n" +
                "Working Time: " + intent.getStringExtra("workingTime") + "\n" +
                "Duration: " + intent.getStringExtra("duration") + "\n" +
                "Location: " + intent.getStringExtra("location");

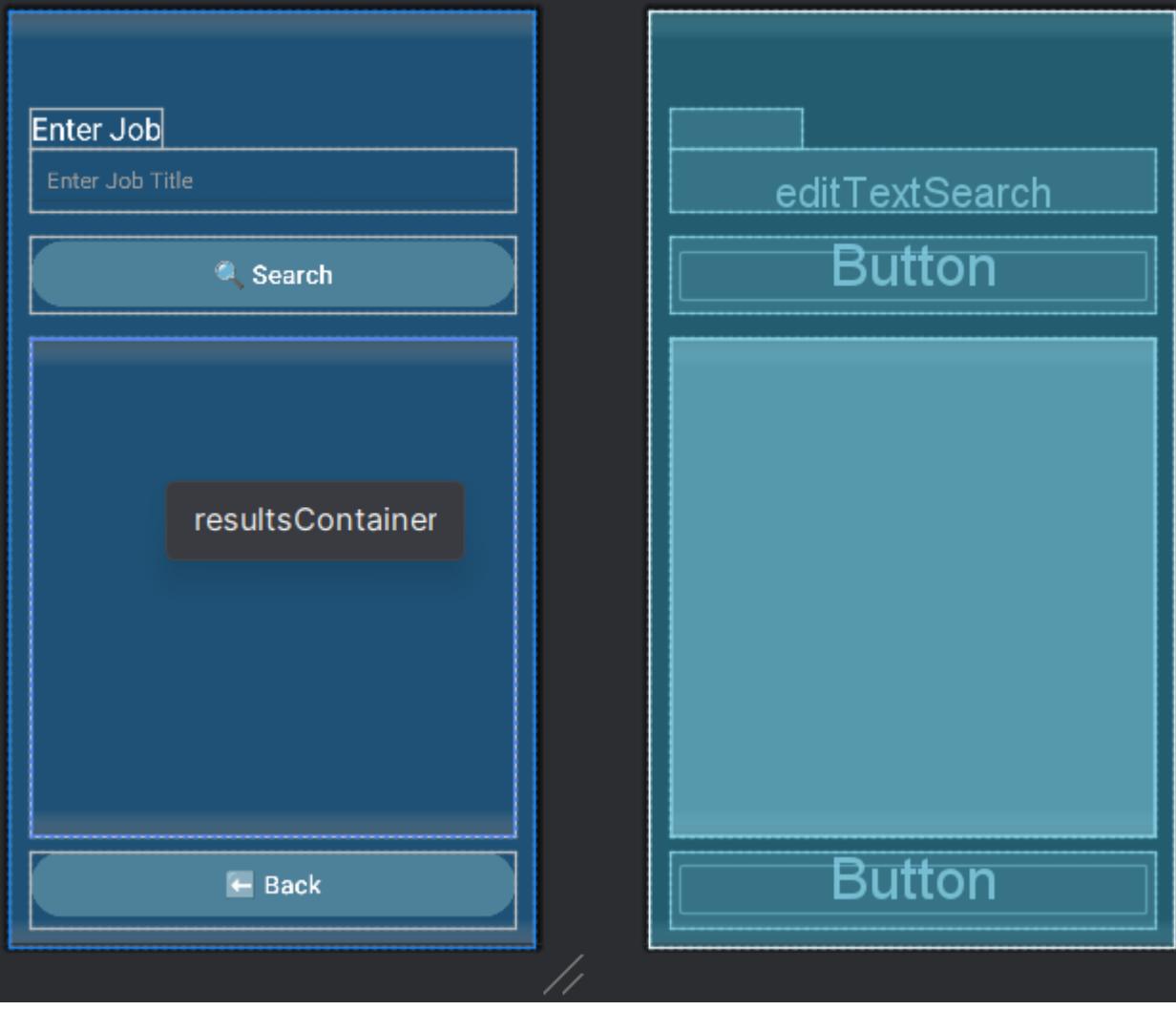
        textViewDetails.setText(details);

        btnBack.setOnClickListener(v -> {
            Intent backIntent = new Intent(Details.this, FindInternship.class);
            backIntent.setFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP |
                    Intent.FLAG_ACTIVITY_SINGLE_TOP);
            startActivity(backIntent);
            finish();
        });
    }
}

```

Output:

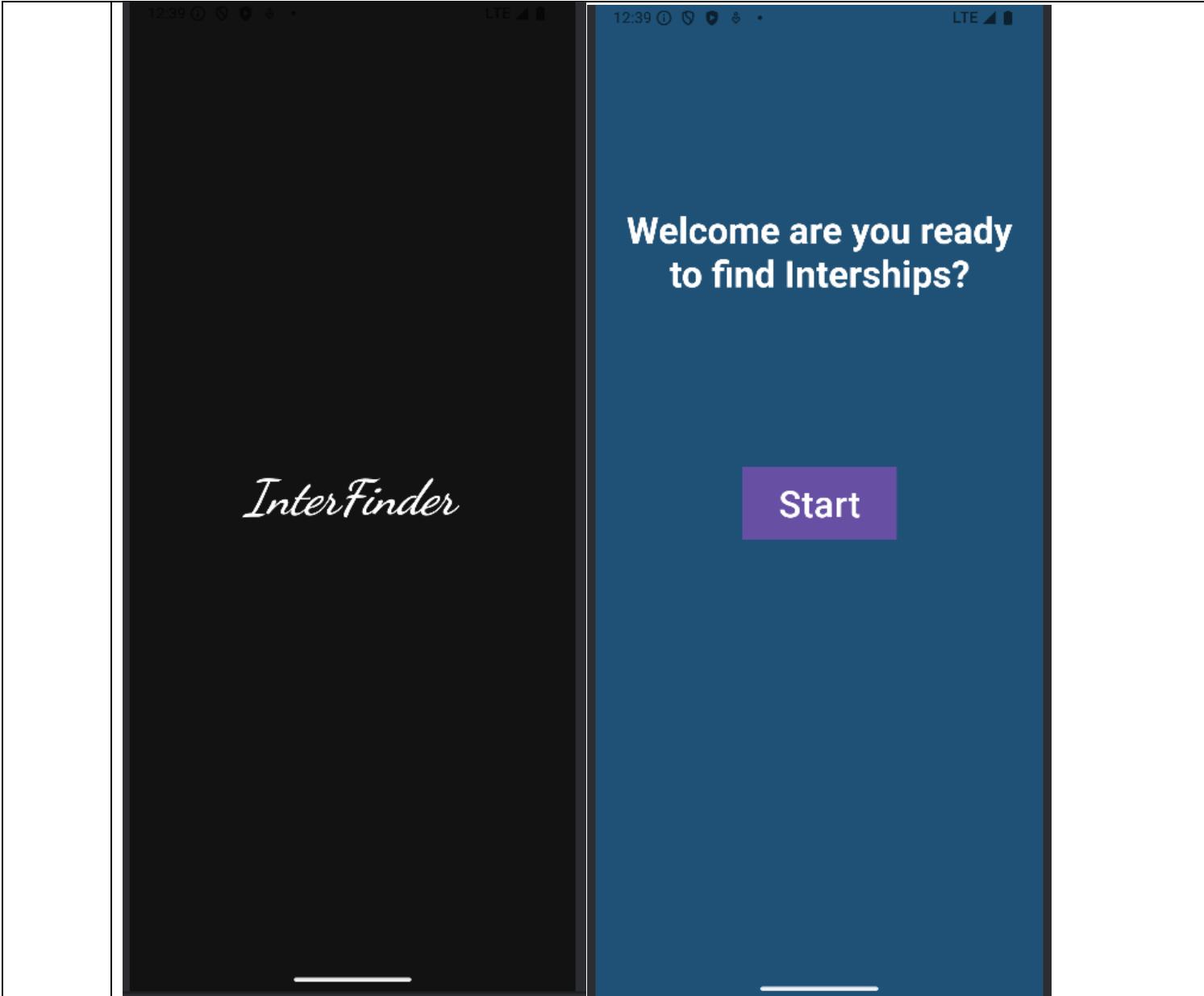




Internship Title

 Back

How it works



The image displays two side-by-side screenshots of a mobile application. The left screenshot shows a dark gray background with the 'InterFinder' logo in a white, italicized serif font. A thin horizontal white bar is positioned at the bottom center of the screen. The right screenshot has a dark blue background. At the top, it asks 'Welcome are you ready to find Internships?' in white text. Below this is a large purple rectangular button with the word 'Start' in white. A thin horizontal white bar is also located at the bottom center of this screen.

InterFinder

Welcome are you ready
to find Internships?

Start

Enter job

Enter Job

Enter description

Enter Description

Search

Back

Enter Job

Intern

🔍 Search

Software Engineer Intern
Google

Software Engineer Intern
Amazon

Data Science Intern
Facebook

Marketing Intern
Amazon

UX Designer Intern
Apple

Cybersecurity Intern
Microsoft

AI Research Intern
OpenAI

Blockchain Developer Intern
Ethereum Foundation

Embedded Systems Intern
Intel

Back

