Department Of Computer Science And Engineering

Mobile Application Development Project

DAILY JOURNAL APP

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XML Code:

- **Activity_main.xml**

```xml
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp"
    android:background="@drawable/home_bg">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Your journal for life"
        android:textSize="24sp"
        android:textColor="@android:color/white"
        android:textStyle="bold"
        android:gravity="center"
        android:layout_marginBottom="24dp" />

    <LinearLayout
        android:id="@+id/entryContainer"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:orientation="vertical"
        android:padding="8dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical"
            android:background="#80FFFFFF"
            android:padding="16dp"
            android:layout_marginBottom="16dp"
            android:elevation="4dp">

        </LinearLayout>

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical"
            android:background="#80FFFFFF"
```

```xml
            android:padding="16dp"
            android:layout_marginBottom="16dp"
            android:elevation="4dp">

        </LinearLayout>

    </LinearLayout>

    <Button

        android:id="@+id/addButton"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="add your day's story here"
        android:textSize="18sp"
        android:textColor="@android:color/white"
        android:background="#80FFFFFF"
        android:padding="12dp"
    android:layout_marginTop="16dp"
    android:elevation="4dp" />

</LinearLayout>
```

- **Activity_login.xml**

```xml
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp"
    android:background="@drawable/home_bg"
    android:gravity="center">

    <LinearLayout
        android:layout_width="300dp"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:background="@android:color/white"
        android:padding="24dp"
        android:backgroundTint="#80FFFFFF">

        <EditText
            android:id="@+id/usernameInput"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Username"
            android:inputType="text"
            android:background="@android:drawable/edit_text"
            android:layout_marginBottom="16dp" />
```

```xml
    <EditText
        android:id="@+id/passwordInput"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Password"
        android:inputType="textPassword"
        android:background="@android:drawable/edit_text"
        android:layout_marginBottom="24dp" />

    <Button
        android:id="@+id/loginButton"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="LOGIN"
        android:textSize="18sp"
        android:textColor="@android:color/white"
        android:backgroundTint="#FF6200EE"
        android:padding="12dp" />
    </LinearLayout>

</LinearLayout>
```

- **Activity_add_entry.xml**

```xml
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp"
    android:background="@drawable/app_bg">

    <EditText
        android:id="@+id/titleInput"
        android:layout_width="match_parent"
        android:layout_height="72dp"
        android:hint="@string/title_hint"
        android:minHeight="48dp"
        android:textColor="@android:color/black" />

    <EditText
        android:id="@+id/textArea"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:hint="@string/text_hint"
        android:gravity="top" />
```

```xml
    <Spinner
      android:id="@+id/imageSpinner"
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:minHeight="48dp"
  android:prompt="@string/image_spinner_prompt" />

    <Button
      android:id="@+id/saveButton"
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:text="@string/save_button_text" />

</LinearLayout>
```

- **custom_spinner_row.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:orientation="horizontal"
  android:padding="8dp">

  <ImageView
    android:id="@+id/spinner_image"
    android:layout_width="48dp"
    android:layout_height="48dp"
    android:layout_marginEnd="8dp"
    android:scaleType="centerCrop" />

  <TextView
    android:id="@+id/spinner_text"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:textColor="@android:color/black" />

</LinearLayout>
```

- **entry_item.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:orientation="horizontal"
  android:padding="8dp"
  android:background="@android:color/white"
  android:layout_marginBottom="8dp">
```

```xml
    <ImageView
      android:id="@+id/entryImage"
      android:layout_width="48dp"
      android:layout_height="48dp"
      android:layout_marginEnd="8dp"
      android:scaleType="centerCrop" />

  <LinearLayout
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="vertical">

    <TextView
      android:id="@+id/entryTitle"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:textSize="16sp"
      android:textColor="@android:color/black"
      android:textStyle="bold" />

 <TextView
      android:id="@+id/entryText"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:textSize="14sp"
      android:textColor="@android:color/black" />

  </LinearLayout>
</LinearLayout>
```

Java Code:

- **MainActivity.java**

```java
package com.example.project;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
import java.util.HashSet;
import java.util.Set;

public class MainActivity extends AppCompatActivity {
    private LinearLayout entryContainer;
    private Button addButton;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        entryContainer = findViewById(R.id.entryContainer);
        addButton = findViewById(R.id.addButton);
        loadEntries();
        addButton.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                startActivity(new Intent(MainActivity.this, AddEntryActivity.class));
            }
        });
    }

    @Override
    protected void onResume() {
        super.onResume();
        loadEntries();
    }

    @Override
    public void onBackPressed() {
        moveTaskToBack(true);
```

```java
    }

    private void loadEntries() {
        entryContainer.removeAllViews();

        SharedPreferences sharedPreferences = getSharedPreferences("DiaryEntries",
MODE_PRIVATE);
        Set<String> entrySet = sharedPreferences.getStringSet("entries", new
HashSet<>());

        for (String entry : entrySet) {
            String[] parts = entry.split("\\|");
            if (parts.length >= 3) {

                String title = parts[0];
                String text = parts[1];

                int imageId = Integer.parseInt(parts[2]);
                View entryView = getLayoutInflater().inflate(R.layout.entry_item,
entryContainer, false);
                TextView titleView = entryView.findViewById(R.id.entryTitle);

                titleView.setText(title);
                TextView textView = entryView.findViewById(R.id.entryText);

                textView.setText(text);
                ImageView imageView = entryView.findViewById(R.id.entryImage);

                imageView.setImageResource(imageId);
                entryContainer.addView(entryView);
            } else {
                Log.e("MainActivity", "Invalid entry format: " + entry);
            }
        }
    }
}
```

- **LoginActivity.java**

```java
package com.example.project;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class LoginActivity extends AppCompatActivity {
```

```java
    private EditText usernameInput, passwordInput;
    private Button loginButton;
    private static final String DEFAULT_USERNAME = "gamya";
    private static final String DEFAULT_PASSWORD = "123";

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
        usernameInput = findViewById(R.id.usernameInput);
        passwordInput = findViewById(R.id.passwordInput);
        loginButton = findViewById(R.id.loginButton);
        loginButton.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                String username = usernameInput.getText().toString();
                String password = passwordInput.getText().toString();
                if (username.equals(DEFAULT_USERNAME) &&
password.equals(DEFAULT_PASSWORD)) {
                    Intent intent = new Intent(LoginActivity.this, MainActivity.class);
                    startActivity(intent);
                    finish(); // Close the LoginActivity
                } else {
                    Toast.makeText(LoginActivity.this, "Invalid username or password",
Toast.LENGTH_SHORT).show();
                }
            }
        });
    }
}
```

- **AddEntryImage.java**

```java
package com.example.project;
import android.content.SharedPreferences;
import android.graphics.drawable.Drawable;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import java.util.ArrayList;
import java.util.HashSet;
import java.util.Set;
public class AddEntryActivity extends AppCompatActivity {
    private EditText titleInput, textArea;
```

```java
    private Spinner imageSpinner;
    private Button saveButton;
    private int[] imageIds;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_add_entry);
        titleInput = findViewById(R.id.titleInput);
        textArea = findViewById(R.id.textArea);
        imageSpinner = findViewById(R.id.imageSpinner);
        saveButton = findViewById(R.id.saveButton);
        ArrayList<Drawable> images = new ArrayList<>();
        ArrayList<String> names = new ArrayList<>();
        imageIds = new int[]{
            R.drawable.image1,
            R.drawable.image2,
            R.drawable.image3,
            R.drawable.image4,
            R.drawable.image5
        };
        String[] imageNames =
getResources().getStringArray(R.array.predefined_image_names);
        for (int id : imageIds) {
            images.add(getResources().getDrawable(id));
        }
        for (String name : imageNames) {
            names.add(name);
        }
        ImageSpinnerAdapter adapter = new ImageSpinnerAdapter(this, images, names);
        imageSpinner.setAdapter(adapter);
        saveButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String title = titleInput.getText().toString();
                String text = textArea.getText().toString();
                int selectedImageId = imageIds[imageSpinner.getSelectedItemPosition()];
                if (title.isEmpty() || text.isEmpty()) {
                    Toast.makeText(AddEntryActivity.this, "Please fill all fields",
Toast.LENGTH_SHORT).show();
                } else {
                    SharedPreferences sharedPreferences =
getSharedPreferences("DiaryEntries", MODE_PRIVATE);
                    Set<String> entrySet = sharedPreferences.getStringSet("entries", new
HashSet<>());
                    String entry = title + "|" + text + "|" + selectedImageId;
                    entrySet.add(entry);
                    sharedPreferences.edit().putStringSet("entries", entrySet).apply();
                    finish();
                }
```

```
        }
    });
    }
}
```

- **ImageSpinnerAdapter.java**

```java
package com.example.project;

import android.content.Context;
import android.graphics.drawable.Drawable;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
import android.widget.TextView;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import java.util.ArrayList;

public class ImageSpinnerAdapter extends ArrayAdapter<String> {
    private Context context;
    private ArrayList<Drawable> images;
    private ArrayList<String> names;

    public ImageSpinnerAdapter(Context context, ArrayList<Drawable> images,
ArrayList<String> names){

        super(context, android.R.layout.simple_spinner_item, names);
        this.context = context;
        this.images = images;
        this.names = names;
    }

    @NonNull
    @Override

    public View getView(int position, @Nullable View convertView, @NonNull
ViewGroup parent) {
        return getCustomView(position, convertView, parent);
    }


    @Override

    public View getDropDownView(int position, @Nullable View convertView, @NonNull
ViewGroup parent) {

        return getCustomView(position, convertView, parent);
```
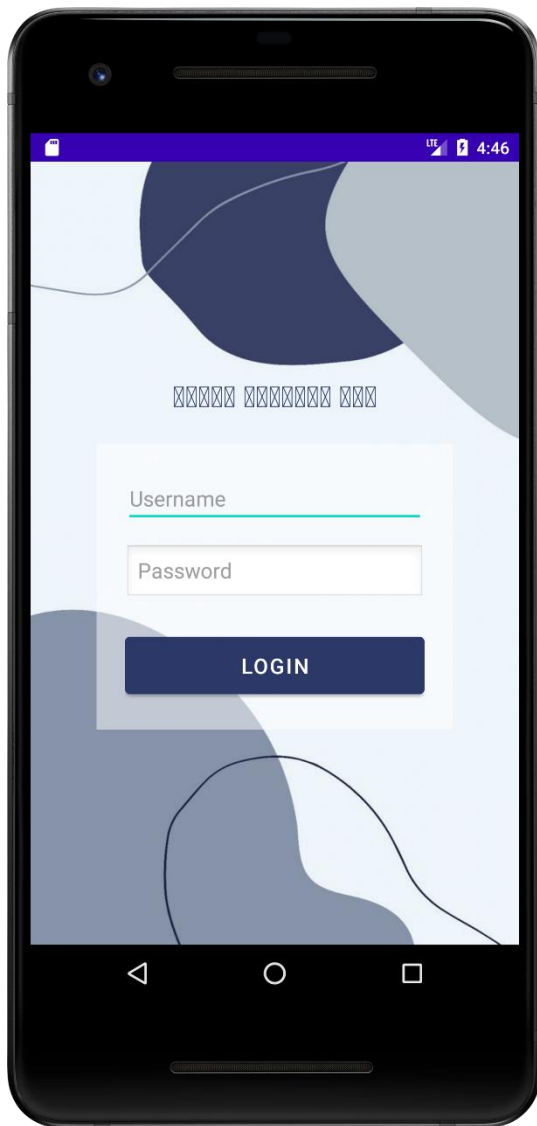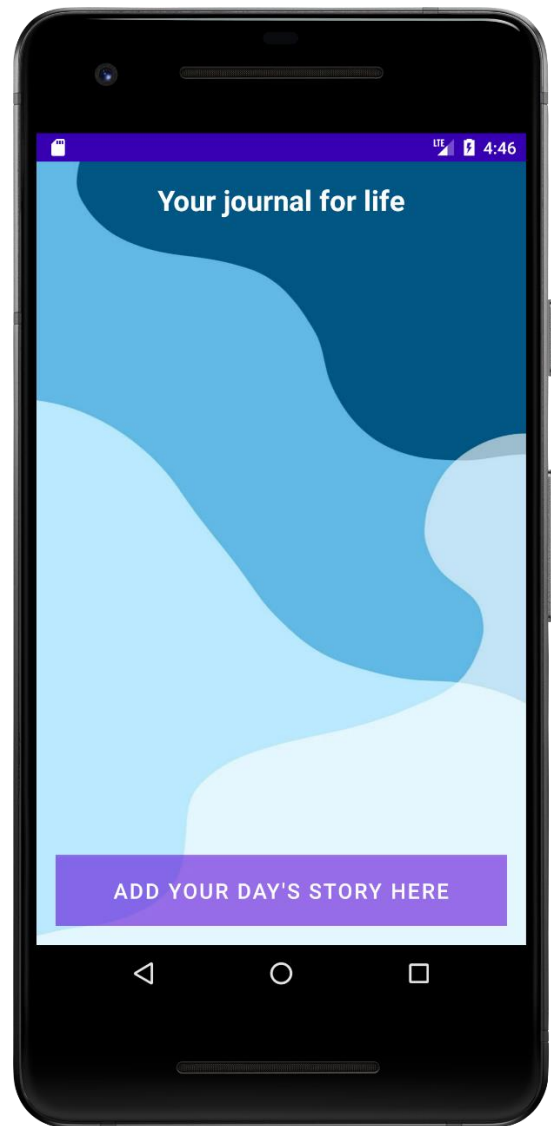
```java
    }

    private View getCustomView(int position, View convertView, ViewGroup parent) {

        LayoutInflater inflater = (LayoutInflater)
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE);

        View row = inflater.inflate(R.layout.custom_spinner_row, parent, false);
        ImageView imageView = row.findViewById(R.id.spinner_image);
        TextView textView = row.findViewById(R.id.spinner_text);
        imageView.setImageDrawable(images.get(position));
        textView.setText(names.get(position));
        return row;
    }
}
```
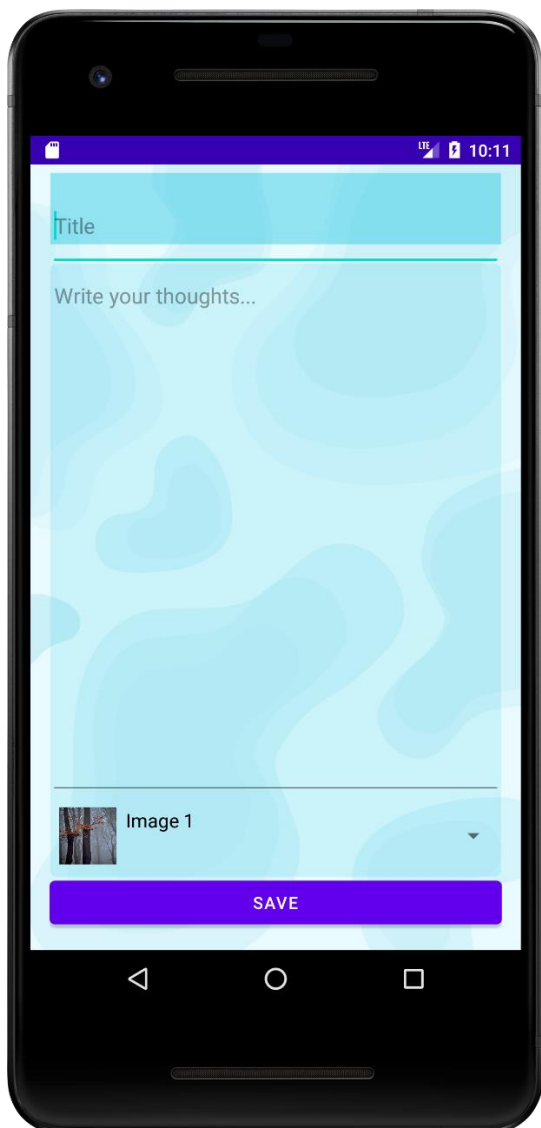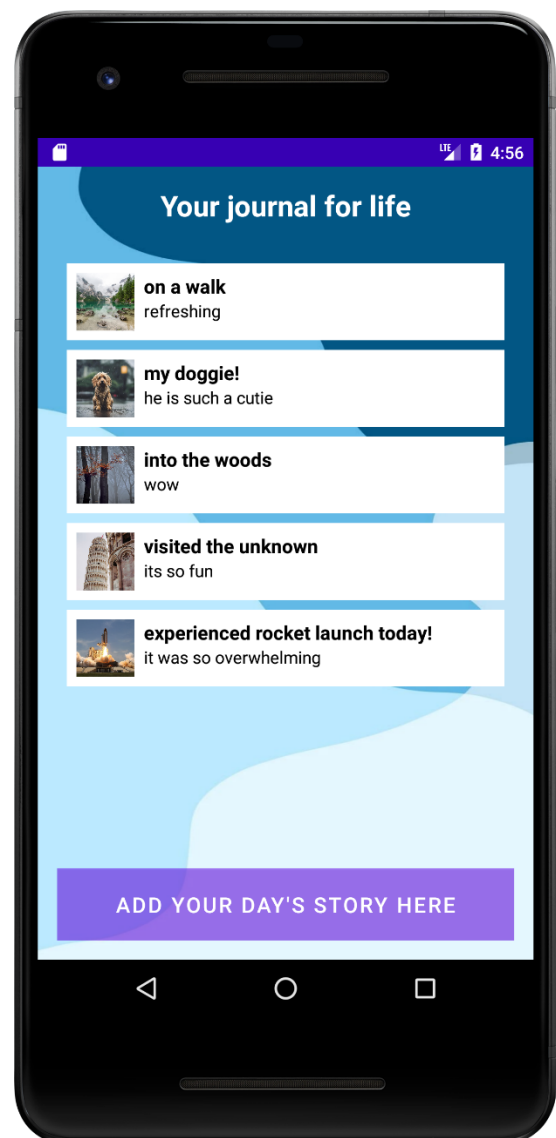
Output:

LOGIN PAGE   HOME PAGE

ADD DATA

DATA IN HOME PAGE