

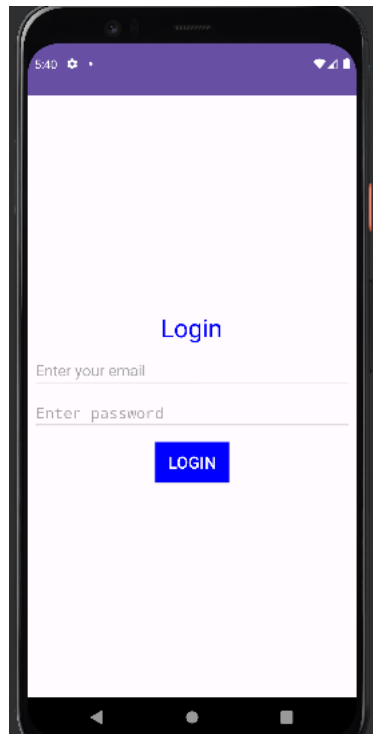
Assignment-1

Login page

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MainActivity.kt

```

</> activity_main.xml x MainActivity.kt x
1 package com.example.assignment1
2
3
4 import androidx.appcompat.app.AppCompatActivity
5 import android.os.Bundle
6 import android.widget.Button
7 import android.widget.EditText
8 import android.widget.LinearLayout
9 import android.widget.TextView
10 import android.view.Gravity
11 import android.graphics.Color // Import Color class
12
13 </> class MainActivity : AppCompatActivity() {
14     override fun onCreate(savedInstanceState: Bundle?) {
15         super.onCreate(savedInstanceState)
16
17         val layout = LinearLayout(context: this)
18         layout.orientation = LinearLayout.VERTICAL
19         layout.gravity = Gravity.CENTER_VERTICAL // Center vertically
20         layout.setPadding(left: 16, top: 16, right: 16, bottom: 16)
21
22         val titleTextView = TextView(context: this)
23         titleTextView.text = "Login"
24         titleTextView.textSize = 30f
25         titleTextView.setTextColor(Color.BLUE) // Set text color to dark blue
26         layout.addView(titleTextView)
27
28         val emailEditText = EditText(context: this)
29         emailEditText.hint = "Enter your email"
30         val emailLayoutParams = LinearLayout.LayoutParams(
31             LinearLayout.LayoutParams.MATCH_PARENT,
32             LinearLayout.LayoutParams.WRAP_CONTENT
33         )
34         emailLayoutParams.topMargin = 24 // Add a gap
35         emailEditText.layoutParams = emailLayoutParams
36         layout.addView(emailEditText)
37
38         val passwordEditText = EditText(context: this)
39         passwordEditText.hint = "Enter password"
40         passwordEditText.inputType = android.text.InputType.TYPE_CLASS_TEXT or
41             android.text.InputType.TYPE_TEXT_VARIATION_PASSWORD
42         val passwordLayoutParams = LinearLayout.LayoutParams(
43             LinearLayout.LayoutParams.MATCH_PARENT,
44             LinearLayout.LayoutParams.WRAP_CONTENT
45         )
46         passwordLayoutParams.topMargin = 16 // Add a gap

```

```

47     passwordEditText.layoutParams = passwordLayoutParams
48     layout.addView(passwordEditText)
49
50     val loginButton = Button(context: this)
51     loginButton.text = "Login"
52     loginButton.textSize = 20f
53     val loginButtonLayoutParams = LinearLayout.LayoutParams(
54         LinearLayout.LayoutParams.WRAP_CONTENT,
55         LinearLayout.LayoutParams.WRAP_CONTENT
56     )
57     loginButtonLayoutParams.topMargin = 32 // Add a gap
58     loginButtonLayoutParams.gravity = Gravity.CENTER_HORIZONTAL // Center horizontally
59     loginButton.layoutParams = loginButtonLayoutParams
60     loginButton.setBackgroundColor(Color.BLUE) // Set background color to dark blue
61     loginButton.setTextColor(Color.WHITE) // Set text color to white
62     loginButton.setOnClickListener { it: View!
63         val email = emailEditText.text.toString()
64         val password = passwordEditText.text.toString()
65
66         // Perform login logic here
67         if (email == "your@email.com" && password == "yourpassword") {
68             // Successful login
69         } else {
70             // Invalid credentials
71         }
72     }
73     layout.addView(loginButton)
74
75     setContentView(layout)
76 }
77 }

```

Link of file:

<https://drive.google.com/file/d/1GhlzdGqGKrdBf5fSS4gFa9Qgh76bNxtG/view?usp=sharing>

Code:

```

package com.example.assignment1

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.LinearLayout
import android.widget.TextView
import android.view.Gravity
import android.graphics.Color // Import Color class

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)

        val layout = LinearLayout(this)

```

```

        layout.orientation = LinearLayout.VERTICAL
        layout.gravity = Gravity.CENTER_VERTICAL // Center vertically
        layout.setPadding(16, 16, 16, 16)

        val titleTextView = TextView(this)
        titleTextView.text = "Login"
        titleTextView.textSize = 30f
        titleTextView.setTextColor(Color.BLUE)
        layout.addView(titleTextView)

        val emailEditText = EditText(this)
        emailEditText.hint = "Enter your email"
        val emailLayoutParams = LinearLayout.LayoutParams(
            LinearLayout.LayoutParams.MATCH_PARENT,
            LinearLayout.LayoutParams.WRAP_CONTENT
        )
        emailLayoutParams.topMargin = 24 // Add a gap
        emailEditText.layoutParams = emailLayoutParams
        layout.addView(emailEditText)

        val passwordEditText = EditText(this)
        passwordEditText.hint = "Enter password"
        passwordEditText.inputType = android.text.InputType.TYPE_CLASS_TEXT
        or android.text.InputType.TYPE_TEXT_VARIATION_PASSWORD
        val passwordLayoutParams = LinearLayout.LayoutParams(
            LinearLayout.LayoutParams.MATCH_PARENT,
            LinearLayout.LayoutParams.WRAP_CONTENT
        )
        passwordLayoutParams.topMargin = 16 // Add a gap
        passwordEditText.layoutParams = passwordLayoutParams
        layout.addView(passwordEditText)

        val loginButton = Button(this)
        loginButton.text = "Login"
        loginButton.textSize = 20f
        val loginButtonLayoutParams = LinearLayout.LayoutParams(
            LinearLayout.LayoutParams.WRAP_CONTENT,
            LinearLayout.LayoutParams.WRAP_CONTENT
        )
        loginButtonLayoutParams.topMargin = 32 // Add a gap
        loginButtonLayoutParams.gravity = Gravity.CENTER_HORIZONTAL //
        Center horizontally
        loginButton.layoutParams = loginButtonLayoutParams
        loginButton.setBackgroundColor(Color.BLUE) // Set background color
        to dark blue
        loginButton.setTextColor(Color.WHITE) // Set text color to white
        loginButton.setOnClickListener {
            val email = emailEditText.text.toString()
            val password = passwordEditText.text.toString()

            // Perform login logic here
            if (email == "your@email.com" && password == "yourpassword") {
                // Successful login
            } else {
                // Invalid credentials }}
        }
        layout.addView(loginButton)

        setContentView(layout)
    }
}

```