

Sprint 2

Date	12 November 2022
Team ID	PNT2022TMID35146
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Coding :

```
package com.example.geofence;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.widget.Button;
import android.widget.TextClock;
import android.widget.TextView;
import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.android.material.textfield.TextInputEditText;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;

public class LoginActivity extends AppCompatActivity {

    TextInputEditText etLoginEmail;
    TextInputEditText etLoginPassword;
    TextView tvRegisterHere;
    Button btnLogin;

    FirebaseAuth mAuth;

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

        etLoginEmail = findViewById(R.id.etLoginEmail);
        etLoginPassword = findViewById(R.id.etLoginPass);
        tvRegisterHere = findViewById(R.id.tvRegisterHere);
        btnLogin = findViewById(R.id.btnLogin);

        mAuth = FirebaseAuth.getInstance();

        btnLogin.setOnClickListener(view ->
            { login();
```

```

        });
        tvRegisterHere.setOnClickListener(view -
            >{ startActivity(new
                Intent(LoginActivity.this,
RegisterActivity.class));
            });
    }

    private void loginUser() {
        String email = etLoginEmail.getText().toString();
        String password = etLoginPassword.getText().toString();

        if
            (TextUtils.isEmpty(email)){ etLoginEmail.setErr
            or("Email cannot be empty");
            etLoginEmail.requestFocus();
        }else if
            (TextUtils.isEmpty(password)){ etLoginPassword.setErr
            or("Password cannot be empty");
            etLoginPassword.requestFocus();
        }else{

 mAuth.signInWithEmailAndPassword(email,password).addOnCompleteListener(new
 OnCompleteListener<AuthResult>() {
            @Override
            public void onComplete(@NonNull Task<AuthResult> task)
        {
            if
                (task.isSuccessful()){ Toast.makeText(LoginActi
                vity.this, "User logged
in successfully", Toast.LENGTH_SHORT).show();
                startActivity(new Intent(LoginActivity.this,
MapsActivity.class));
            }else{
                Toast.makeText(LoginActivity.this, "Log in
Error: " + task.getException().getMessage(), Toast.LENGTH_SHORT).show();
            }
        }
    });
}

}
}
}

```

Output :

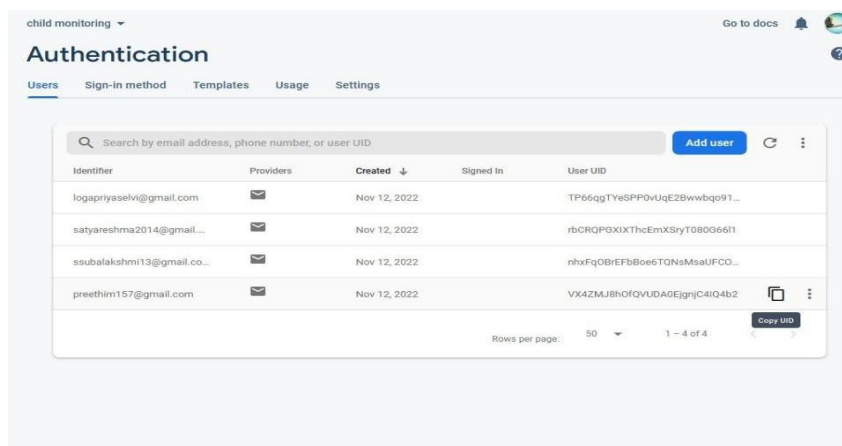
Login Page



The image shows a mobile application interface for a service named "Geofence". At the top, there is a status bar with the time 12:26, battery level at 75%, and various system icons. Below the status bar, the word "Geofence" is displayed in white text on a dark blue background. The main content area has a light blue background. It features a cartoon illustration of a young boy with brown hair, wearing a yellow t-shirt and blue pants, standing with his arms outstretched. Below the illustration is a large, bold, teal-colored "Login" button. Underneath the button are two white input fields with rounded corners: the first is labeled "Email" and the second is labeled "Password". Below these fields is a solid blue button with the word "LOGIN" in white capital letters. At the bottom of the screen, there is a link that says "Not registered yet Register here" in teal text.

Authentication (firebase) :

For storing the registered user details



The image shows the "Authentication" section of the Firebase console, specifically the "Users" tab. The page has a header with "child monitoring" and "Go to docs". Below the header, there are tabs for "Users", "Sign-in method", "Templates", "Usage", and "Settings". A search bar at the top allows searching by email address, phone number, or user UID. Below the search bar is a table with the following columns: Identifier, Providers, Created, Signed in, and User UID. The table contains four rows of user data. At the bottom of the table, there is a "Rows per page" dropdown set to 50, and a "1 - 4 of 4" indicator. A "Copy UID" button is also present.

Identifier	Providers	Created	Signed in	User UID
logapriyaselvi@gmail.com	📧	Nov 12, 2022		TP66qgTYeSPP0vUqE2Bwwbq91...
satyareshma2014@gmail...	📧	Nov 12, 2022		rbCRQPQXIXThcEmXSryT080G66I
ssubalakshmi13@gmail.co...	📧	Nov 12, 2022		nhxFq0BrEFbBoe6TQNaMsaUFCO...
preethim157@gmail.com	📧	Nov 12, 2022		VX4ZMJ8hOfQVUDA0EjgnjC4iQ4b2