

Sprint 2

Date	13 November 2022
Team ID	PNT2022TMID22198
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Sprint 2 is about login with mail and password used for registration

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 :

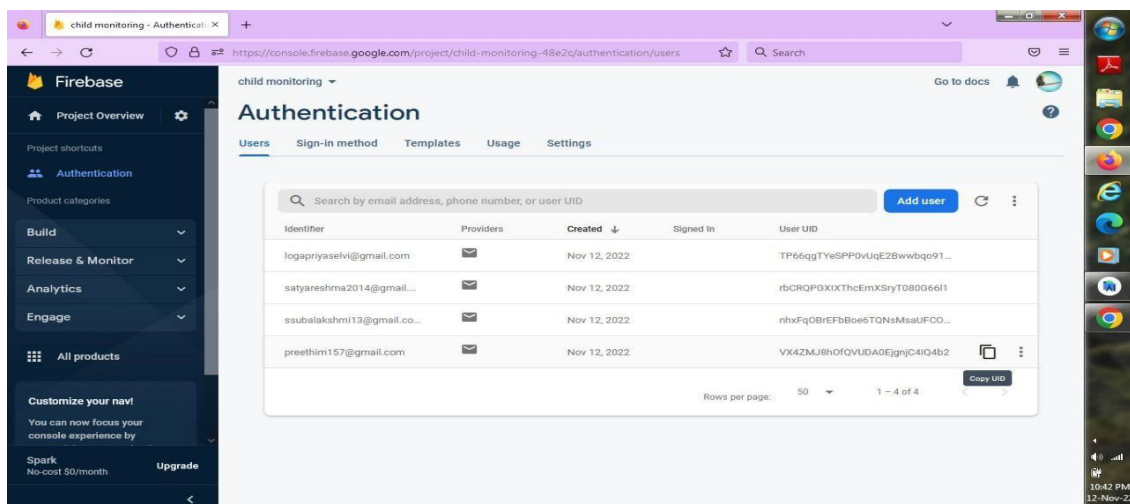
Login Page



The image shows a mobile application interface for a project 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 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, the word 'Login' is written in a large, green, sans-serif font. Underneath 'Login', there are two white input fields: the first is labeled 'Email' and the second is labeled 'Password'. Below these fields is a large, solid blue button with the word 'LOGIN' in white, uppercase letters. At the bottom of the screen, there is a link that says 'Not registered yet Register here', where 'Register here' is in green text.

Authentication (firebase) :

For storing the registered user details



The image is a screenshot of the Firebase Authentication console in a web browser. The browser's address bar shows the URL: <https://console.firebase.google.com/project/child-monitoring-48e2c/authentication/users>. The page title is 'Authentication'. On the left side, there is a sidebar with the 'Firebase' logo and navigation links for 'Project Overview', 'Authentication', 'Build', 'Release & Monitor', 'Analytics', and 'Engage'. The main content area displays a table of users. The table has columns for 'Identifier', 'Providers', 'Created', 'Signed in', and 'User UID'. There are four rows of user data. At the bottom right of the table, there is a 'Copy UID' button. The page also includes a search bar at the top of the table and a 'Go to docs' link in the top right corner.

Identifier	Providers	Created	Signed in	User UID
logapriyasevi@gmail.com	Google	Nov 12, 2022		TP66qgTYeSPP0vUqE28wwbq91...
satyareshma2014@gmail...	Google	Nov 12, 2022		rbCRQPGXIXThcEmXSryT080066l1
ssubalakshmi13@gmail.co...	Google	Nov 12, 2022		nhxFqQBRfEFbBoe6TQNsMsaUFD0...
preethim157@gmail.com	Google	Nov 12, 2022		VX4ZMJ8hOfQVUDA0EjgrjC4iQ4b2