

## Sprint 2

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Team ID	PNT2022TMID31224
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 ->
        { loginUser();
```

```

    });
    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 :

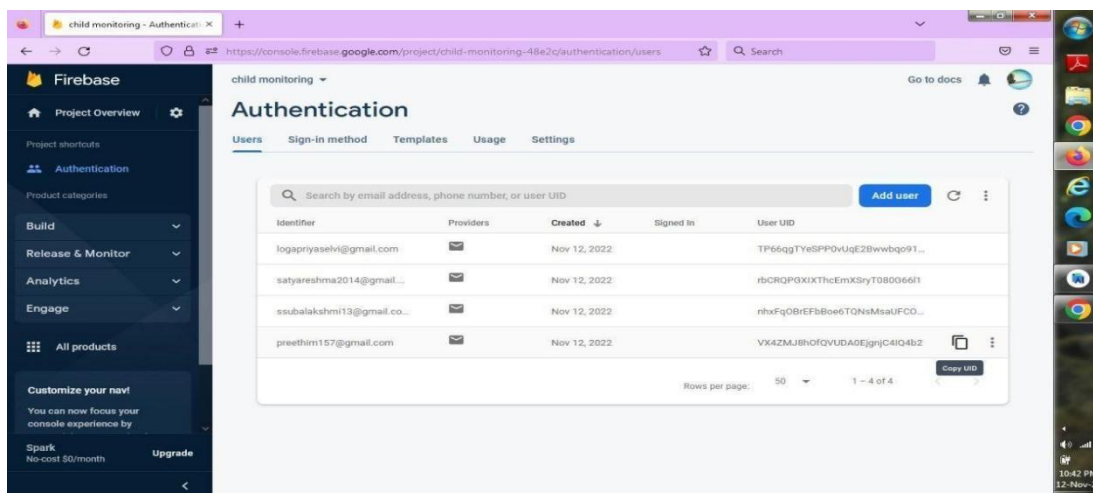
## Login Page



The image shows a mobile application interface for a geofence monitoring system. At the top, a status bar displays the time 12:26, battery level at 75%, and various connectivity icons. Below the status bar, the word "Geofence" is written in white on a dark blue background. In the center, there is a cartoon illustration of a young boy with brown hair, wearing a yellow shirt and blue pants, with his arms outstretched. Below the illustration, the word "Login" is displayed 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, the text "Not registered yet" is followed by a green link that says "Register here".

## 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, there is a sidebar with the Firebase logo and navigation links: "Project Overview", "Authentication", "Build", "Release & Monitor", "Analytics", "Engage", and "All products". The main content area shows a table of users. At the top of the table is a search bar with the placeholder text "Search by email address, phone number, or user UID" and an "Add user" button. The table has five columns: "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 "Rows per page" dropdown set to 50 and a "Copy UID" button.

Identifier	Providers	Created	Signed in	User UID
logapriyaseelvi@gmail.com		Nov 12, 2022		TP66qgTYeSPPOxUgE2Bwwbq91...
satyareashma2014@gmail...		Nov 12, 2022		rbCRQPQXIXThcEmXSryT080G661
ssubalakshmi13@gmail.co...		Nov 12, 2022		nhxFq0BrEFB6e6T0NsMsaUFD...
preethim157@gmail.com		Nov 12, 2022		VX4ZMU8HofQVUBA0EjgnjC4iQ4b2