

## Sprint 2

Date	12 November 2022
Team ID	PNT2022TMID04073
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{

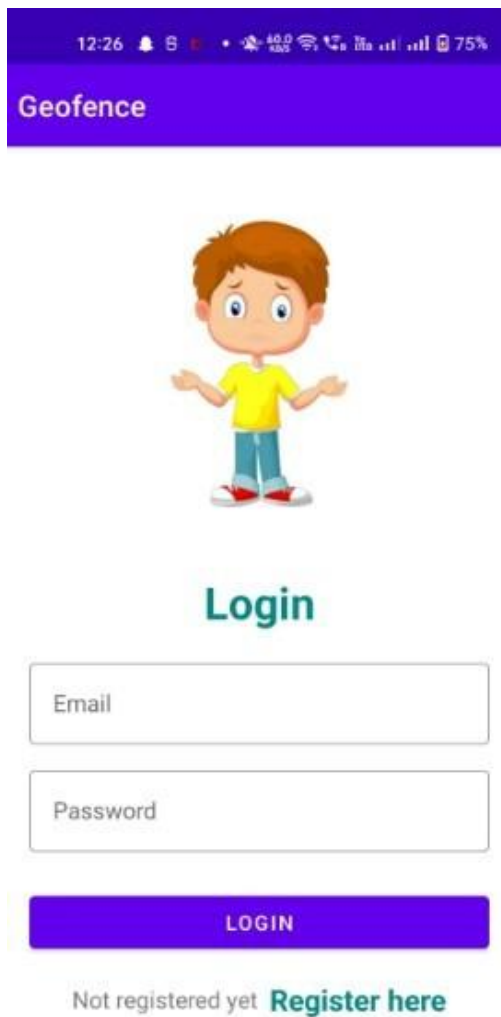
 mAuth.signInWithEmailAndPassword(email,password).addOnCompleteListener(new
 OnCompleteListener<AuthResult>() {
            @Override
            public void onComplete(@NonNull Task<AuthResult> task)
        {
            if
                (task.isSuccessful()){ Toast.makeText(LoginActi
vity.this, "User 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 :

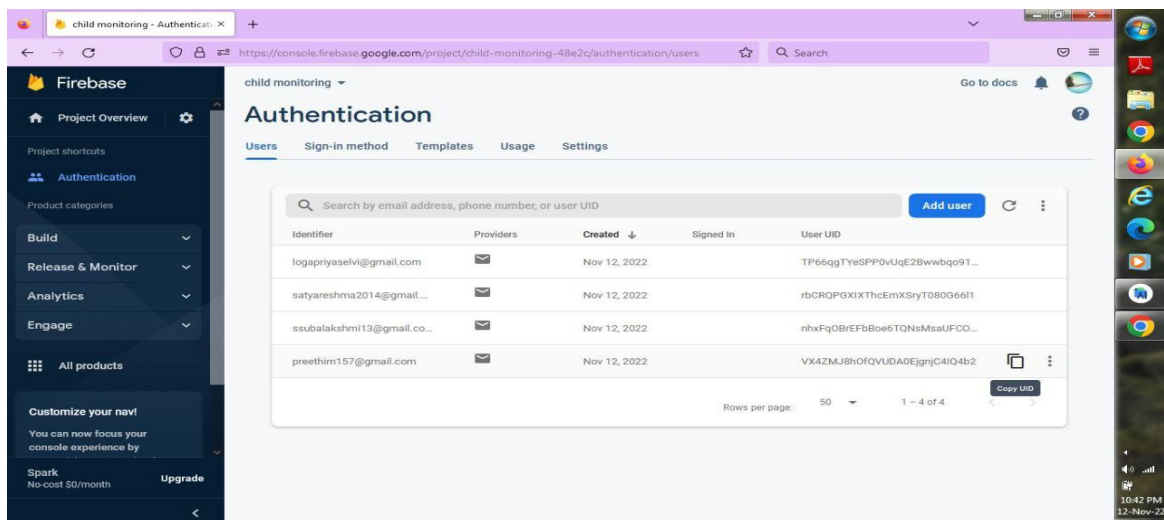
## Login Page



The image shows a mobile application interface for a login page. 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 is a purple header with the word "Geofence" in white. The main content area has a light blue background. In the center, there is a cartoon illustration of a boy with brown hair, wearing a yellow shirt and blue pants, with his arms outstretched. Below the illustration, the word "Login" is written in a large, bold, teal font. Underneath "Login" are two white input fields: the first is labeled "Email" and the second is labeled "Password". Below these fields is a purple button with the word "LOGIN" in white capital letters. At the bottom, there is a link that says "Not registered yet Register here" in a teal font.

## 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", and "Engage". The main content area shows a table of users. At the top of the table is a search bar with the 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 "Copy UID" button and a "Rows per page" dropdown set to "50".

Identifier	Providers	Created	Signed in	User UID
logapriyaseelvi@gmail.com	📧	Nov 12, 2022		TP66gTYeSPF0vUqE2Bwwbq91...
satyareshma2014@gmail...	📧	Nov 12, 2022		rbCRQPGXIXThcEmXSryT080G66I1
ssubalakshmi13@gmail.co...	📧	Nov 12, 2022		nhxFq0BtEFbBoe6TQNsMsaUFCO...
preethim157@gmail.com	📧	Nov 12, 2022		VX4ZMJ8hofQVUDA0EjgnjC4tQ4b2