

Sprint 2

Date	11 November 2022
Team ID	PNT2022TMID04092
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));
    });
}

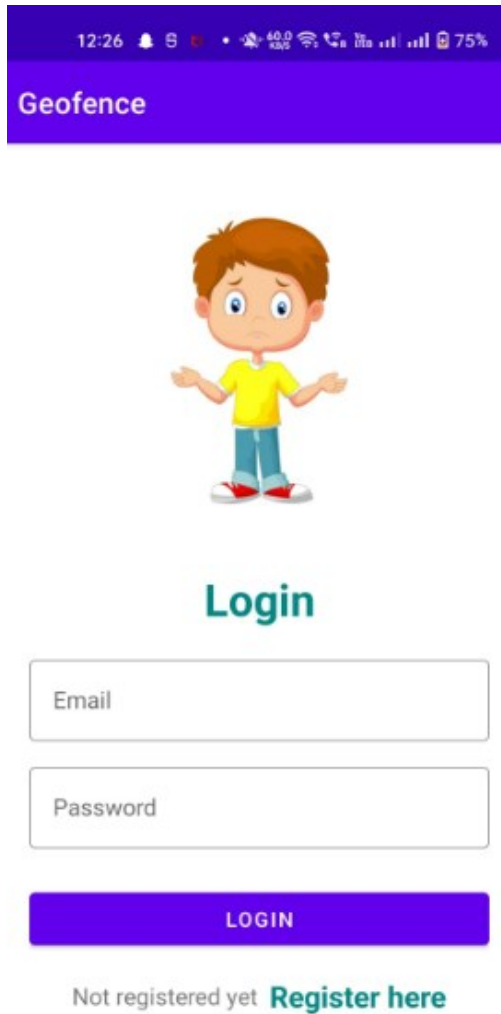
private void loginUser(){
    String email = etLoginEmail.getText().toString();
    String password = etLoginPassword.getText().toString();

    if (TextUtils.isEmpty(email)){
        etLoginEmail.setError("Email cannot be empty");
        etLoginEmail.requestFocus();
    }else if (TextUtils.isEmpty(password)){
        etLoginPassword.setError("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(LoginActivity.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 app interface for a login page. At the top, there is a status bar with the time 12:26, battery level 75%, and various icons. Below the status bar is a purple header with the word "Geofence" in white. The main content area is white and features a cartoon illustration of a boy with brown hair, wearing a yellow shirt and blue pants, standing with his arms outstretched. Below the illustration is a green "Login" button. Underneath the button are two input fields: "Email" and "Password". At the bottom, there is a purple "LOGIN" button and a link that says "Not registered yet Register here".

12:26 75%

Geofence

Login

Email

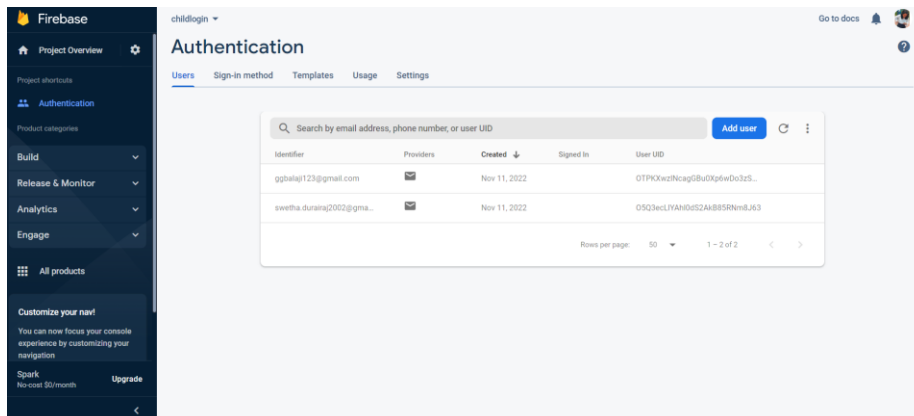
Password

LOGIN

Not registered yet [Register here](#)

Authentication (firebase) :

For storing the registered user details



The image shows the Firebase Authentication console. The left sidebar contains the Firebase logo and navigation links: Project Overview, Authentication, Build, Release & Monitor, Analytics, Engage, All products, and a section for customizing the nav. The main content area is titled "Authentication" and has tabs for Users, Sign-in method, Templates, Usage, and Settings. The "Users" tab is selected, showing a table of users. The table has columns for Identifier, Providers, Created, Signed In, and User UID. There are two users listed. At the bottom, there is a "Rows per page" dropdown set to 50 and a "1 - 2 of 2" indicator.

Identifier	Providers	Created	Signed In	User UID
gghai123@gmail.com	Google	Nov 11, 2022		OTPKXecNcag5bu0XgtewDc3z5...
swetha.durana2002@gmail.com	Google	Nov 11, 2022		05Q34ecLYAH5dS2A8B85Rnm8J63