Sprint 2

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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:

```java
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();
```

```java
        });
        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