Sprint 1

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Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Sprint 1 is about registering the new user with mail and password . Then I verification mail is sent to the user mail

Coding :

```java
package com.example.geofence;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import  android.nfc.Tag;
import android.os.Bundle;
import android.text.TextUtils;
import android.util.Log;
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;
import com.google.firebase.auth.FirebaseUser;


public class RegisterActivity extends AppCompatActivity {



    TextInputEditText etRegEmail;
    TextInputEditText etRegPassword;
    TextView tvLoginHere;
    Button btnRegister;

    FirebaseAuth mAuth;

    @Override
    protected void onCreate(Bundle savedInstanceState)
        { super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_register);

        etRegEmail = findViewById(R.id.etRegEmail);
        etRegPassword = findViewById(R.id.etRegPass);
        tvLoginHere = findViewById(R.id.tvLoginHere);
        btnRegister = findViewById(R.id.btnRegister);
```

```java
        mAuth = FirebaseAuth.getInstance();

        btnRegister.setOnClickListener(view -
            >{ createUser();
        });

        tvLoginHere.setOnClickListener(view -
            >{ startActivity(new
            Intent(RegisterActivity.this,
LoginActivity.class));
        });
    }

    private void createUser(){
        String email = etRegEmail.getText().toString();
        String password = etRegPassword.getText().toString();

        if
            (TextUtils.isEmpty(email)){ etRegEmail.setErr
            or("Email cannot be empty");
            etRegEmail.requestFocus();
        }else if
            (TextUtils.isEmpty(password)){ etRegPassword.setErr
            or("Password cannot be empty");
            etRegPassword.requestFocus();
        }else{

mAuth.createUserWithEmailAndPassword(email,password).addOnCompleteListener(
new OnCompleteListener<AuthResult>() {

                @Override

                public void onComplete(@NonNull Task<AuthResult> task)
{
                    if
                        (task.isSuccessful())
                        { FirebaseUser user =
mAuth.getInstance().getCurrentUser();

                            user.sendEmailVerification()
                                .addOnCompleteListener(new
OnCompleteListener<Void>()

                                    @Override
                                    public void onComplete(@NonNull
{ Task<Void> task) {

                                        if (task.isSuccessful()) {

Toast.makeText(RegisterActivity.this, "Verification Email sent",
Toast.LENGTH_SHORT).show();
                                            startActivity(new
Intent(RegisterActivity.this, LoginActivity.class));
                                        }
                                    }
                                });
                        // Toast.makeText(RegisterActivity.this, "User
registered successfully", Toast.LENGTH_SHORT).show();
                        //startActivity(new
Intent(RegisterActivity.this, LoginActivity.class));
                    }else{
                        Toast.makeText(RegisterActivity.this,
"Registration Error: " + task.getException().getMessage(),
Toast.LENGTH_SHORT).show();
                    }
                }
            });
        }
    }
```

Output :

Registration Page