

PROJECT DEVELOPMENT PHASE

Sprint 2

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Team ID	PNT2022TMID14022
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Sprint 2 is about registering the new user with mail and password . Then I verification mail is sent to the user mail.

Coding :

```
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);
```

```

        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.setError("Email cannot be empty"); etRegEmail.requestFocus(); } else if (TextUtils.isEmpty(password)) { etRegPassword.setError("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

Geofence



Register

REGISTER

Already registered [Login here](#)

Mail Verification:

