**Sprint 2**

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| Date | 11 November 2022 |
| Team ID | PNT2022TMID1711 |
| Project Name | IoT Based Safety Gadget for Child Safety Monitoring and Notification |

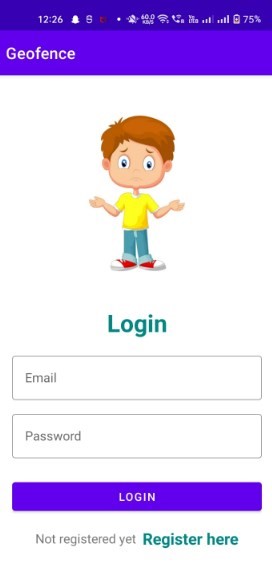
Sprint 2 is about login with mail and password used for registration

**Coding:**

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| 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**



**Authentication (firebase) :**

For storing the registered user details

