

Sprint 2

Date	13 November 2022
Team ID	PNT2022TMID17380
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.setErr
            or("Email cannot be empty");
            etLoginEmail.requestFocus();
        }else if
            (TextUtils.isEmpty(password)){ etLoginPassword.setErr
            or("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(LoginActi
                vity.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

12:26 8 4G LTE 75%

Geofence



Login

Email

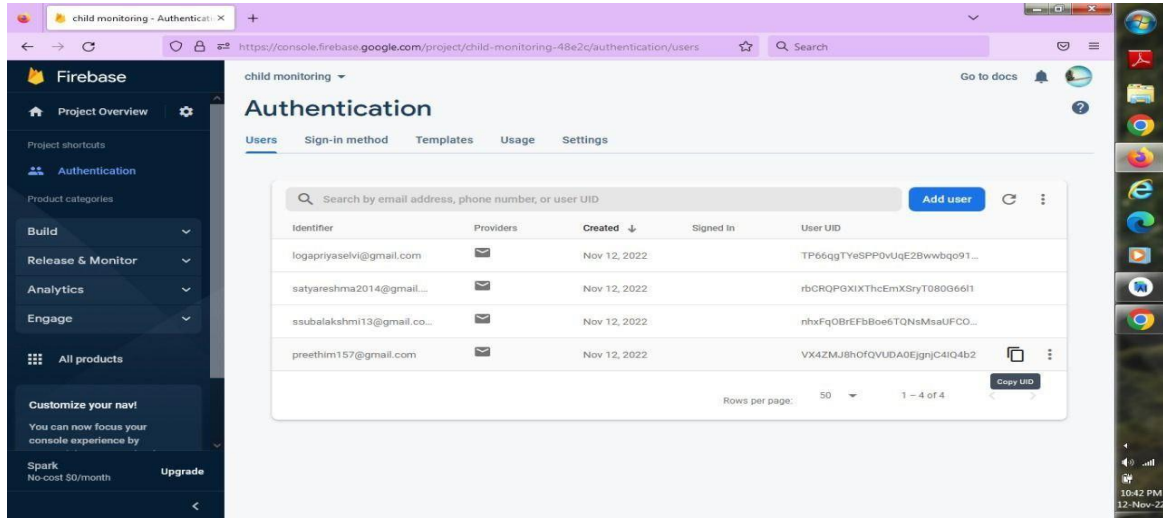
Password

LOGIN

Not registered yet [Register here](#)

Authentication (firebase) :

For storing the registered user details



The screenshot displays the Firebase Authentication console for a project named "child monitoring". The left sidebar shows the Firebase logo and navigation options: Project Overview, Authentication (selected), and Product categories (Build, Release & Monitor, Analytics, Engage). The main content area is titled "Authentication" and includes tabs for Users, Sign-in method, Templates, Usage, and Settings. The "Users" tab is active, showing a table of registered users. A search bar at the top allows filtering by email address, phone number, or user UID. An "Add user" button is located in the top right corner of the table. The table lists four users, all created on Nov 12, 2022. The "User UID" column includes a "Copy UID" button for each entry. The bottom of the table shows "Rows per page: 50" and "1 - 4 of 4".

Identifier	Providers	Created	Signed in	User UID
logapriyasevi@gmail.com	📧	Nov 12, 2022		TP66ggTYeSPPOvUqE2Bwwbq91...
satyareshma2014@gmail...	📧	Nov 12, 2022		rbCRQP0XIXThcEmXSryT08036611
ssubalakahmi13@gmail.co...	📧	Nov 12, 2022		n8xhFq0BrEFbBoe6TQNzMsauFCO...
preethim157@gmail.com	📧	Nov 12, 2022		VX4ZMJ8hOfQVUDA0EjgnjC4IQ4b2