

## Sprint 2

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| Date         | 14 November 2022   |
| Team ID      | PNT2022TMID31224   |
| 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();
        });
    }

    private void loginUser()
    {
        String email = etLoginEmail.getText().toString();
        String password = etLoginPassword.getText().toString();

        if(TextUtils.isEmpty(email))
        {
            etLoginEmail.setError("Email is required");
            etLoginEmail.requestFocus();
            return;
        }

        if(TextUtils.isEmpty(password))
        {
            etLoginPassword.setError("Password is required");
            etLoginPassword.requestFocus();
            return;
        }

        mAuth.signInWithEmailAndPassword(email, password).addOnCompleteListener(new OnCompleteListener<AuthResult>()
        {
            @Override
            public void onComplete(@NonNull Task<AuthResult> task)
            {
                if(task.isSuccessful())
                {
                    Intent intent = new Intent(LoginActivity.this, MainActivity.class);
                    intent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TASK | Intent.FLAG_ACTIVITY_NEW_TASK);
                    startActivity(intent);
                }
                else
                {
                    etLoginEmail.setError("Authentication failed");
                    etLoginEmail.requestFocus();
                }
            }
        });
    }
}
```

```
    });
    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



### Login

Email

Password

**LOGIN**

Not registered yet [Register here](#)

## Authentication (firebase) :

For storing the registered user details

| Identifier                 | Providers | Created      | Signed In | User UID                        |
|----------------------------|-----------|--------------|-----------|---------------------------------|
| logapriyaselvi@gmail.com   | Email     | Nov 12, 2022 |           | TP66qgTYeSPPOvUqE2Bwwbqp91...   |
| satyareshma2014@gmail...   | Email     | Nov 12, 2022 |           | rbCRQPGXIXThcEmXSryT080066f1... |
| ssubalakshmi13@gmail.co... | Email     | Nov 12, 2022 |           | nhxFqOBrEFbBoe6TQNMsatUFC0...   |
| preethim157@gmail.com      | Email     | Nov 12, 2022 |           | VX4ZMJ8hOfQVUDA0EjgnjC4IQ4b2... |