

Practical-12

Aim : Introduction to Validating, Submitting form and HTTP requests.

Code :

```
import 'package:flutter/material.dart';

void main() {
  runApp(MaterialApp(
    debugShowCheckedModeBanner: false,
    home: FormValidationExample(),
  ));
}

class FormValidationExample extends StatelessWidget with InputValidationMixin {
  final formGlobalKey = GlobalKey<FormState>();
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Validation form'),
      ),
      body:
        Padding(
          padding: const EdgeInsets.symmetric(horizontal: 24),
          child:Form(
            key: formGlobalKey,
            child: Column(
              children: [
                const SizedBox(height: 50),
                TextFormField(
                  decoration: InputDecoration(
                    icon: Icon(Icons.account_circle_outlined),
                    labelText: "Firstname"
                  ),
                  validator: (value) {
                    if (value == null || value.isEmpty) {
                      return 'Please enter some text';
                    }
                    return null;
                  },
                ),
                const SizedBox(height: 24),
                TextFormField(
                  decoration: InputDecoration(
```

```

        icon: Icon(Icons.account_circle_outlined),
        labelText: "Lastname"
    ),
    validator: (value) {
        if (value == null || value.isEmpty) {
            return 'Please enter some text';
        }
        return null;
    },
),
const SizedBox(height: 24),
TextFormField(
    decoration: InputDecoration(
        icon: Icon(Icons.email_outlined),
        labelText: "Email"
    ),
    validator: (email) {
        // ignore: curly_braces_in_flow_control_structures
        if (isEmailValid(email!)) {
            return null;
        } else {
            return 'Enter a valid email address';
        }
    },
),
const SizedBox(height: 24),
TextFormField(
    decoration: InputDecoration(
        icon: Icon(Icons.enhanced_encryption_outlined),
        labelText: "Password",
    ),
    maxLength: 6,
    obscureText: true,
    validator: (password) {
        if (isPasswordValid(password!)) return null;
        else
            return 'Enter a valid password';
    },
),
const SizedBox(height: 24),
TextFormField(
    decoration: InputDecoration(
        icon: Icon(Icons.phone_rounded ),
        labelText: "Phone number",
    ),
    maxLength: 10,

```

```

        validator: (value) {
          if(value!.isEmpty){
            return "Please Enter a Phone Number";
          }else if(!RegExp(r'^\s*(?:\+?(\d{1,3}))?[-. ()*(\d{3})[-. ]*(\d{4})(?:
*x(\d+))?\s*$').hasMatch(value)){
            return "Please Enter a Valid Phone Number";
          }
        },
      ),
      const SizedBox(height: 24),
      ElevatedButton(
        onPressed: () {
          if (formGlobalKey.currentState!.validate()) {
            formGlobalKey.currentState!.save();
            // use the email provided here
          }
        },
        child: Text("Submit"))
    ],
  ),
),
));
}
}

```

```

mixin InputValidationMixin {
  bool isPasswordValid(String password) => password.length == 6;

  bool isEmailValid(String email) {
    String name =
      r'^(([^<>()[]\.,;:\s@"]+(\.[^<>()[]\.,;:\s@"]+)*)([".+"])(\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\]|(([a-zA-Z\d-0-9]+\.)+[a-zA-Z]{2,}))$';
    RegExp regex = new RegExp(name);
    return regex.hasMatch(email);
  }
  bool isEmpty(String mob) {
    String mo =
      r'^(([^<>()[]\.,;:\s@"]+(\.[^<>()[]\.,;:\s@"]+)*)([".+"])(\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\]|(([a-zA-Z\d-0-9]+\.)+[a-zA-Z]{2,}))$';
    RegExp regex = new RegExp(mo);
    return regex.hasMatch(mob);
  }
}

```

Output :

Validation form

Ⓜ

Firstname

Ⓜ

Lastname

✉

Email

🔒

Password

☎

Phone number

0/5

0/10

Submit

Validation form

Ⓜ

Firstname

Ⓜ

Lastname

✉

Email

🔒

Password

☎

Phone number

Please enter some text

Please enter some text

Enter a valid email address

Enter a valid password

Please Enter a Phone Number

0/5

0/10

Submit

Validation form

Ⓜ

Firstname

Ⓜ

Lastname

✉

Email

🔒

Password

☎

Phone number

Ayush

Prajapati

ayush45@gmail.com

5464564654

6/6

10/10

Submit