SPRINT 1

Flask API

```python
from __future__ import print_function from flask import Flask,
request, json, jsonify from flask_json import FlaskJSON,
json_response from flask_cors import CORS import ibm_db

# Initializing flask app  app = Flask(__name__) jsonObj = FlaskJSON(app) cors =
CORS(app,resources={r'*':{'origins':'http://localhost:3000'}})
 conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=0c77d6f2-5da9-48a9-81f8-
        86b520b87518.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31198;Securit
     y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=txm14386;PWD=SuJ9Kf0eI
JGynsB9;","","")

# Route for seeing a data
@app.route('/login') def login():
   email = request.args.get('email')    password = request.args.get('password')    sql
= "SELECT * FROM login where email ='{}'".format(email)    out =
ibm_db.exec_immediate(conn, sql)     document = ibm_db.fetch_assoc(out)    if
document == False :
     response = json_response(value=0)    elif
document['PASSWORD'] == password :        response =
json_response(value=1)    else :
     response = json_response(value=2)    return response


@app.route('/register',methods=['POST']) def register():
   if  request.method  ==  "POST":              credentials  =
json.loads(request.data)       sql = "INSERT INTO login
VALUES('{}','{}')".format(credentials['email'],credentials['password'])       out =
ibm_db.exec_immediate(conn, sql)        response = json_response(200)        return response

# Running app




















if __name__ == '__main__':    app.run(debug=True)
```

Login Page

```
import React from "react"; import Swal from 'sweetalert2'; import './style.css'
import CustomButton from "../../components/Button/button"; import Text
from "../../components/Text/text"; import Input from
"../../components/Input/input"; export default class Login extends
React.Component{    render(){
        const notification = {           toast:true,
position: 'top-end',          showConfirmButton:
false,         icon: 'error',         timer:4000,
timerProgressBar:true,


        }         const navigation = this.props.navigation        const login = async() =>{          const
email = document.getElementById('emailInput_login').value;         const password =
document.getElementById('passwordInput_login').value;         let url= new
URL("http://localhost:5000/login")         url.searchParams.set('email',email)
url.searchParams.set('password',password)          fetch(url).then((res)=>{
res.json().then((data)=>{              if(data.value===0){
            notification.title="Not a user"
            notification.text="Email id is not registered"
            Swal.fire(notification)            }else if(data.value ===1){
navigation('/dashboard',{state:{email:email}})
        }else if(data.value===2){             notification.title="Invalid Password"
            notification.text="Please provide correct password"
            Swal.fire(notification)
        }else{             notification.title="Connection Error"
notification.text="Please try again later"
            Swal.fire(notification)            }
```

```
                })
            })
        }
        const signin = ()=>{
navigation("/register")
        }
        return(
          <div>
            <div>
                <Text value="Login"/>
            </div>
            <Input id='emailInput_login' value="Email"/>
            <Input id='passwordInput_login' value="Password"/>
            <div className="buttonrow">
            <CustomButton function={login} value="Login"/>
            <CustomButton function={signin} value="Signin"/>
            </div>
          </div>
        )
    }
}
```

Register Page

```
import React from "react"; import validator
from "validator"; import Swal from
'sweetalert2';
 import Text from "../../components/Text/text";
import CustomButton from "../../components/Button/button"; import Input from
"../../components/Input/input";
 export default class Register extends React.Component{    render(){
        const navigation = this.props.navigation        const register
= async()=>{            let notification = {            toast:true,
position: 'top-end',            showConfirmButton: false,
icon: 'error',            timer:4000,
        timerProgressBar:true,
        }            let fullname=document.getElementById("nameInput_register").value
```

```
        let validName = fullname.replace(/\s/g, '');          let
email=document.getElementById('emailInput_register').value          let
password=document.getElementById('passwordInput_register').value          let
confirmPassword=document.getElementById('confirmPasswordInput_register').value
if(!validator.isAlpha(validName)){                 notification.title = 'Invalid Name';
        notification.text= 'Please just provide alphabets';
        Swal.fire(notification)
        }else if(!validator.isEmail(email)){                 notification.title= 'Invalid Email';
        notification.text= 'Please just provide a proper email';
        Swal.fire(notification)
        }else if(!validator.isStrongPassword(password)){                 notification.title= 'Invalid
Password';              notification.text= 'Should have number, symbol, uppercase, length > 8';
        Swal.fire(notification)
        }else if(password!==confirmPassword){                 notification.title= 'Password
Mismatch';              notification.text= 'Password must match';
        Swal.fire(notification)
        }else{               let credentials = {
name : fullname,                 email: email,
password: password,
        }               let url= new URL("http://localhost:5000/register")
fetch(url,{                 method: 'POST',                 headers: {
        'Content-Type': 'application/json'
        },              body: JSON.stringify(credentials)
        }).then((res)=>{                 res.json().then((data)=>{
if(data.status === 200){                 navigation('/')
        }else{                 notification.toast=false
notification.position='center'                 notification.title="Error "+200
notification.text="Please do retry"
        Swal.fire(notification)
        }
        })
```

```
                })
        }        }
return(
        <div>
            <div>
                <Text value="Register"/>
            </div>
            <Input id="nameInput_register" value="Name"/>
            <Input id="emailInput_register" value="Email"/>
            <Input id="passwordInput_register" value="Password"/>
            <Input id="confirmPasswordInput_register" value="Confirm Password"/>
            <CustomButton function={register} value="Register"/>
        </div>
    )
  }
}
```
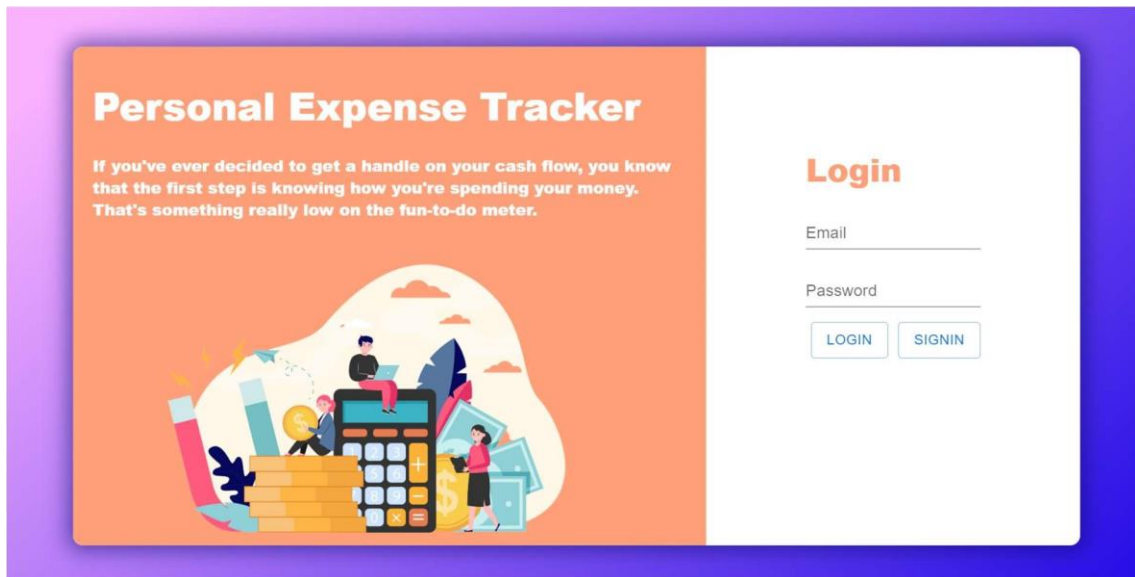
Output