Team id: PNT2022TMID02903

SPRINT 1

Flask API

```
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
```

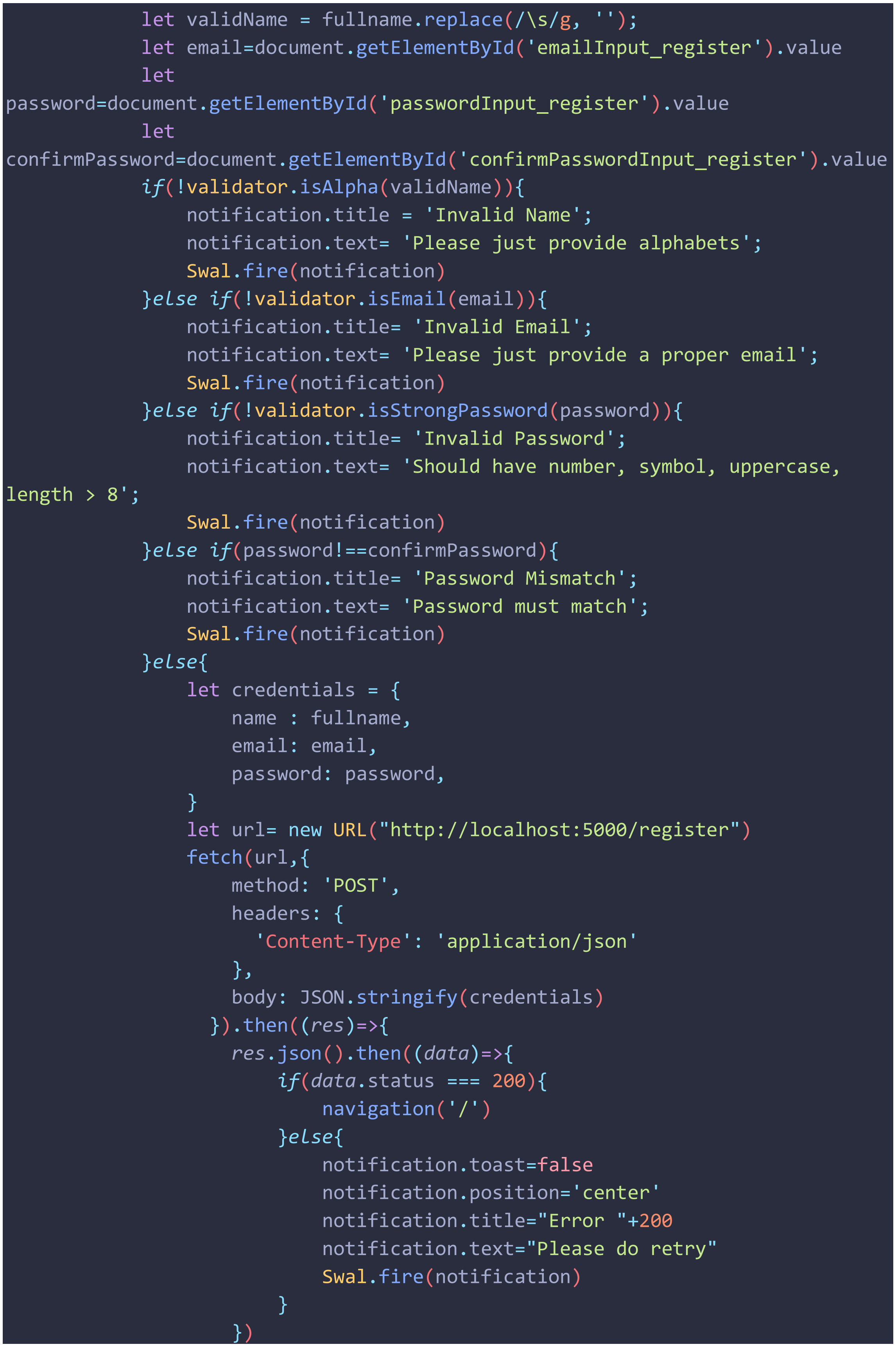
```
if __name__ == '__main__':
    app.run(debug=True)
```

Login Page

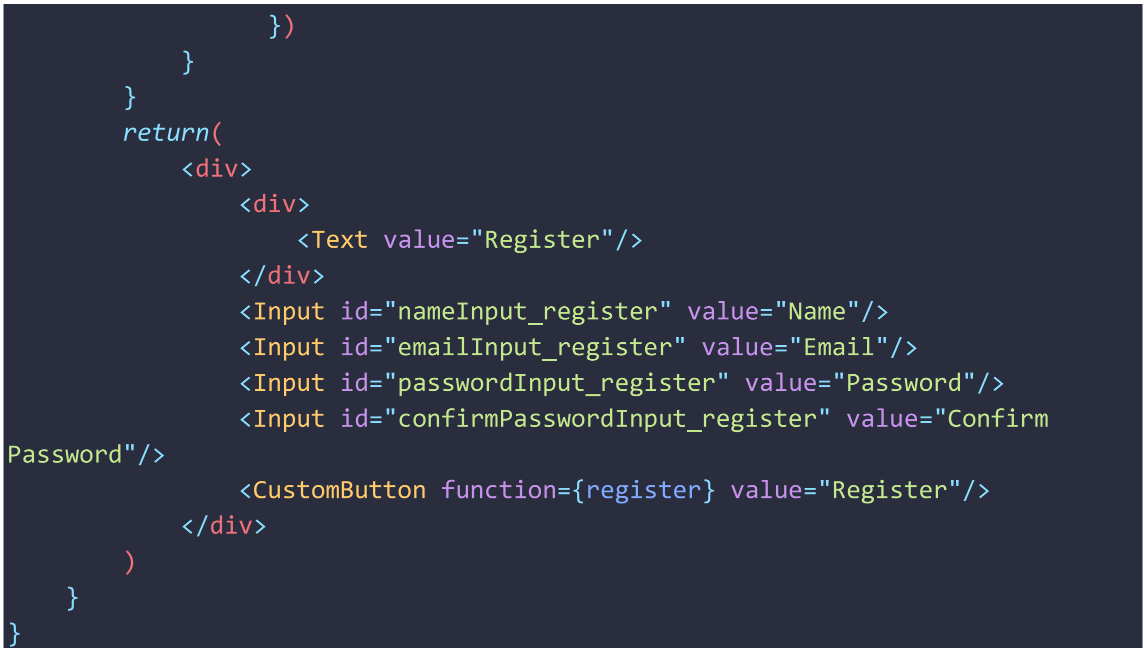
```
import React from "react";
import Swal from 'sweetalert2';
import './style.css'
import CustomButton from "../../components/Button/button";
import Text from "../../components/Text/text";
import Input from "../../components/Input/input";
export default class Login extends React.Component{
    render(){
        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
```

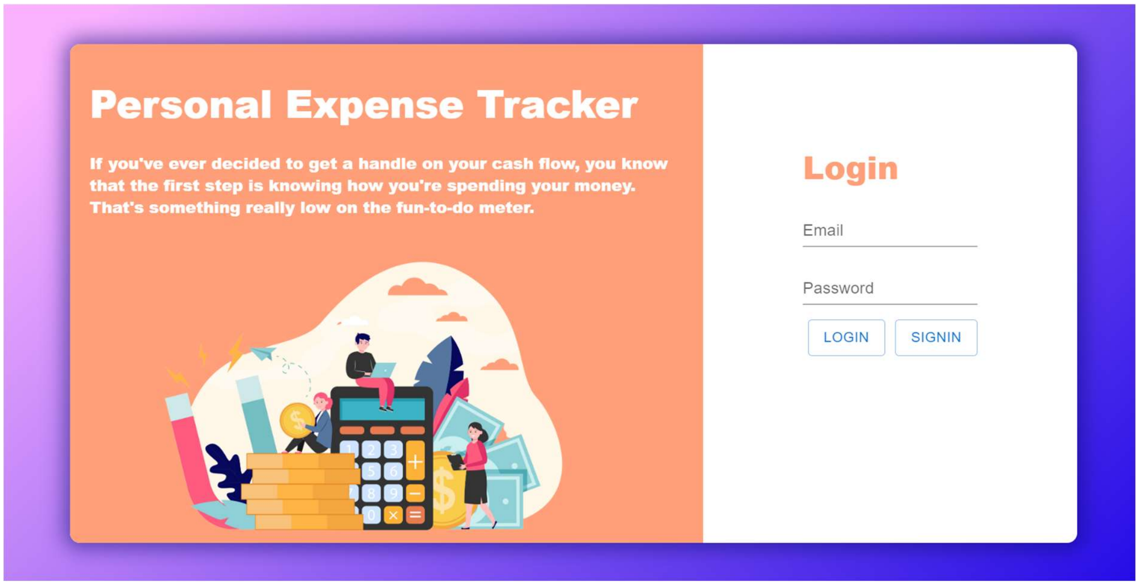


```
            let validName = fullname.replace(/\s/g, '');
            let email=document.getElementById('emailInput_register').value
            let
password=document.getElementById('passwordInput_register').value
            let
confirmPassword=document.getElementById('confirmPasswordInput_register').value
            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



Personal Expense Tracker

If you've ever decided to get a handle on your cash flow, you know that the first step is knowing how you're spending your money. That's something really low on the fun-to-do meter.

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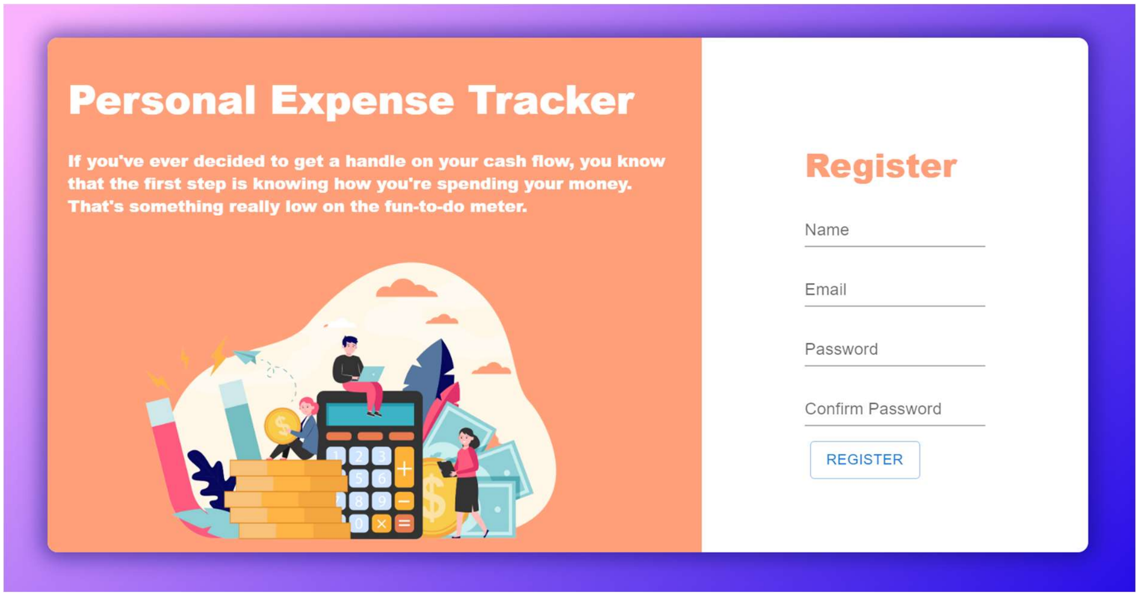

Personal Expense Tracker

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Register

Name

Email

Password

Confirm Password