

Date	10 September 2022
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Assignment 1

1. Create registration page in html with username, email and phone number and by using POST method display it in next html page.

2. Develop a flask program which should contain at least 5 packages used from pypi.org.

Code

app.py

```
from flask import Flask, render_template, request, redirect, url_for, flash
from flask_wtf import FlaskForm
from wtforms import StringField, PasswordField, SubmitField
from wtforms.validators import DataRequired, Email, EqualTo

app = Flask(__name__)
app.config['SECRET_KEY'] = 'mysecretkey'

class RegistrationForm(FlaskForm):
    first_name = StringField('First Name', validators=[DataRequired()])
    last_name = StringField('Last Name', validators=[DataRequired()])
    email = StringField('Email', validators=[DataRequired(), Email()])
    phone = StringField('Phone', validators=[DataRequired()])
    password = PasswordField('Password', validators=[DataRequired()])
    submit = SubmitField('Submit')

@app.route('/', methods=['GET', 'POST'])
def index():
    return render_template('index.html')

@app.route('/register', methods=['GET', 'POST'])
def register():
    form = RegistrationForm()
    if form.validate_on_submit():
        flash(f'Account created for {form.first_name.data} {form.last_name.data}!', 'success')
        return render_template('success.html', form=form)
    return render_template('success.html', form=form)
```

```

@app.route('/success', methods=['GET', 'POST'])
def success():
    return render_template('success.html',
first_name=request.args.get('first_name'),
last_name=request.args.get('last_name'), email=request.args.get('email'),
phone=request.args.get('phone'))

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

```

index.html

```

<!DOCTYPE html>
<html>
<head>
    <title>Flask App</title>

    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
" integrity="sha384-
JcKb8q3iqJ61gNV9KgB8thSsNjpsL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
</head>
<body>
    <h1>Registration</h1>
    <form action="/register" method="POST">
        <label for="first_name">First Name:</label>
        <input type="text" name="first_name" id="first_name">
        <br>
        <label for="last_name">Last Name:</label>
        <input type="text" name="last_name" id="last_name">
        <br>
        <label for="email">Email:</label>
        <input type="text" name="email" id="email">
        <br>
        <label for="phone">Phone:</label>
        <input type="text" name="phone" id="phone">
        <br>
        <label for="password">Password:</label>
        <input type="password" name="password" id="password">
        <br>
        <input type="submit" value="Submit">
    </form>

</body>
</html>

```

success.html

```
<!-- Print form data from flask app -->

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Success</title>
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
" integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
</head>
<body>

  <h1>Success</h1>
  <h2>Thank you for submitting your information</h2>
  <h3>Here is the information you submitted:</h3>
  <p>First Name: {{form.first_name}}</p>
  <p>Last Name: {{form.last_name}}</p>
  <p>Email: {{form.email}}</p>
  <p>Phone: {{form.phone}}</p>
</body>
</html>
```

fail.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Fail</title>
</head>
<body>

  <h1>Fail</h1>
  <h2>Sorry, there was an error with your submission</h2>
  <h3>Here is the information you submitted:</h3>
  <p>First Name: {{form.first_name}}</p>
  <p>Last Name: {{form.last_name}}</p>
  <p>Email: {{form.email}}</p>
  <p>Phone: {{form.phone}}</p>
</body>
</html>
```

Output

Index.html

Registration

First Name:

Last Name:

Email:

Phone:

Password:

Register.html

Success

Thank you for submitting your information

Here is the information you submitted:

First Name:

Last Name:

Email:

Phone: