ASSIGNMENT 1

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

Register.html

```
<html>
<head>
  <title> Registration Page</title>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
</head>
<body>
  <h1>Registration Page</h1>
  <form action="Register.php" method="POST">
  <label for="User Name">User Name:</label>
  <input type="text" name="User Name"> <br/>>
<br/>>
  <label for="Email">Email:</label>
  <input type="Email" name="Email"> <br/>>
<br/>br/>
  <label for="Phone Number">Phone Number:</label>
  <input type="Phone Number" name="Phone Number"> <br/><br/>
<br/>
  <input type="submit" value="Register!">
```

```
</form>
</body>
</html>
Register.php
<?php
echo "You have submitted, User Name: " . $_POST['User Name'] . ", Email: ". $_POST['Email']. " and
Phone Number: ". $ POST['Phone Number'];
?>
2. Develop a flask program which should contain at least 5 packages used from pypi.org.
import os
import shutil
import pytest
from flask import render_template, render_template_string, request
from jinja2.exceptions import TemplateNotFound
from jinja2.sandbox import SecurityError
from werkzeug.test import Client
from CTFd.config import TestingConfig
from CTFd.utils import get_config, set_config
from tests.helpers import create_ctfd, destroy_ctfd, gen_user, login_as_user
def test_themes_run_in_sandbox():
  app = create_ctfd()
  with app.app_context():
    try:
       app.jinja_env.from_string(
         "{{ ().__class__.__bases__[0].__subclasses__()[40]('./test_utils.py').read() }}"
       ).render()
```

```
except SecurityError:
       pass
    except Exception as e:
       raise e
  destroy_ctfd(app)
def test_themes_cant_access_configpy_attributes():
  app = create_ctfd()
  with app.app_context():
    assert app.config["SECRET_KEY"] == "AAAAAAAAAAAAAAAAAA"
    assert (
       app.jinja_env.from_string("{{ get_config('SECRET_KEY') }}").render()
## ... source file abbreviated to get to Flask examples ...
       r = client.get("/challenges")
       assert r.status_code == 200
       assert "Challenges" in r.get_data(as_text=True)
       r = client.get("/scoreboard")
       assert r.status_code == 200
       assert "Scoreboard" in r.get_data(as_text=True)
  destroy_ctfd(app)
def test_that_request_path_hijacking_works_properly():
  app = create_ctfd(setup=False, application_root="/ctf")
  assert app.request_class.__name__ == "CTFdRequest"
  with app.app_context():
    with app.test_request_context("/challenges"):
       assert request.path == "/ctf/challenges"
  destroy_ctfd(app)
```

```
app = create_ctfd()
  assert app.request_class.__name__ == "CTFdRequest"
  with app.app_context():
    with app.test_request_context("/challenges"):
       assert request.path == "/challenges"
    from flask import Flask
    test_app = Flask("test")
    assert test_app.request_class.__name__== "Request"
    with test_app.test_request_context("/challenges"):
       assert request.path == "/challenges"
  destroy_ctfd(app)
def test_theme_fallback_config():
  class ThemeFallbackConfig(TestingConfig):
    THEME_FALLBACK = False
  app = create_ctfd(config=ThemeFallbackConfig)
  try:
    os.mkdir(os.path.join(app.root_path, "themes", "foo_fallback"))
  except OSError:
    pass
  with app.app_context():
    app.config["THEME_FALLBACK"] = False
    set_config("ctf_theme", "foo_fallback")
    assert app.config["THEME_FALLBACK"] == False
    with app.test_client() as client:
       try:
r = client.get("/")
```