

ASSIGNMENT I

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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/>

        <label for="Phone Number">Phone Number:</label>

        <input type="Phone Number" name="Phone Number"> <br/>

    <br/>
```

```

        <input type="submit" value="Register!">
    </form>

```

```

</body>

```

```

</html>

```

Register.php 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.

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```

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"] == "AAAAAAAAAAAAAAAAAAAA"

    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"] == Falsewith

    app.test_client() as client:

        try:

r = client.get("/")

```