

## ASSIGNMENT-1

Student Name	AMANI RAMZAN
Student Roll Number	951919CS007
Team ID	PNT2022TMID13229

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']. " andPhone Number: ".
$_POST['Phone Number'];
```

```
?>
```

2. Develop a flask program which should contain atleast 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"] == "AAAAAAAAAAAAAAAAAAAAAA"

    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("/")

```