

LAPORAN PENGUJIAN UNIT TESTING MENGGUNAKAN PHPUNIT

*diajukan untuk memenuhi salah satu tugas mata kuliah PPPL pada semester
genap tahun akademik 2023/2024*



Disusun oleh :

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**PROGRAM STUDI ILMU KOMPUTER
FAKULTAS PENDIDIKAN MATEMATIKA DAN
ILMU PENGETAHUAN ALAM
UNIVERSITAS PENDIDIKAN INDONESIA**

2024

PHPunit

1. Reservation User

Kode program

- Fungsi 1 : Add reservation success

```
public function testAddReservationSuccess()
{
    $POST = [
        'submit' => true,
        'name' => 'Nabiilah Elsa',
        'email' => 'nabiilah@upi.edu',
        'phone' => '08976xxxx',
        'day' => '4',
        'month' => 'july',
        'year' => '2025',
        'no_adults' => '2',
        'no_rooms' => '2',
        'message' => '1000'
    ];
    ob_start();
    include 'app/index.php';
    ob_end_clean();

    $result = $this->con->query("SELECT * FROM requests ORDER BY id DESC LIMIT 1"); //cek apakah masuk db
    $room = $result->fetch_assoc();

    $this->assertEquals('Nabiilah Elsa', $room['name']);
}
```

- Fungsi 2 : Reservation failure missing fields

```
public function testReservationFailureMissingFields()
{
    $POST = [
        'submit' => true,
        'name' => '',
        'email' => '',
        'phone' => '',
        'day' => 'no',
        'month' => 'no',
        'year' => 'no',
        'no_adults' => 'no',
        'no_rooms' => 'no',
        'message' => ''
    ];
    ob_start();
    include 'app/index.php';
    $output = ob_get_contents();
    ob_end_clean();

    $this->assertStringContainsString('All Feilds Required, Try Again', $output);
}
```

- Fungsi 3 : reservation database insertion

```

public function testReservationDatabaseInsertion()
{
    $_POST = [
        'submit' => true,
        'name' => 'Kim Jennie',
        'email' => 'jennie@gmail.com',
        'phone' => '0987654321',
        'day' => '15',
        'month' => 'june',
        'year' => '2024',
        'no_adults' => '2',
        'no_rooms' => '1',
        'message' => 'Excited about the trip!'
    ];
    ob_start();
    include 'app/index.php';
    ob_end_clean();
    $query = "SELECT * FROM requests WHERE name='Kim Jennie' AND email='jennie@gmail.com'";
    $result = mysqli_query($this->con, $query);
    $this->assertTrue(mysqli_num_rows($result) > 0);
    $cleanupQuery = "DELETE FROM requests WHERE name='Kim Jennie' AND email='jennie@example.com'";
    mysqli_query($this->con, $cleanupQuery);
}

```

Result

```

Configuration: C:\xampp\htdocs\hotel\phpunit.xml

... 3 / 3 (100%)

Time: 00:00.338, Memory: 8.00 MB

Hotel Reservation
✓ Add reservation success
✓ Reservation failure missing fields
✓ Reservation database insertion

There was 1 PHPUnit test runner deprecation:

1) Your XML configuration validates against a deprecated schema. Migrate your XML configuration using "--mi

OK, but there were issues!
Tests: 3, Assertions: 3, Deprecations: 1.

elsan@ELSANABIILAH MINGW64 /c/xampp/htdocs/hotel

```

2. Input feedback user

Kode program

- Fungsi 1 : Feedback Submission Success

```

class HotelContactTest extends PHPUnit\Framework\TestCase
{
    public function testFeedbackSubmission()
    {
        $_POST['name'] = 'Sung Hanbin';
        $_POST['email'] = 'hanbin@upi.edu';
        $_POST['phone'] = '123-456-7890';
        $_POST['message'] = 'awesome.';
        $_SESSION = []; // Start with empty session

        $mock = $this->createMock(mysqli::class);
        $mock->method('query')->willReturn(true); // Simulate successful query
        $GLOBALS['con'] = $mock; // Replace actual connection (adjust based on your setup)

        require_once('app/contact.php');

        // Check if no errors are displayed
        $this->assertEmpty($error);
    }
}

```

- Fungsi 2 : Empty Fields Submission

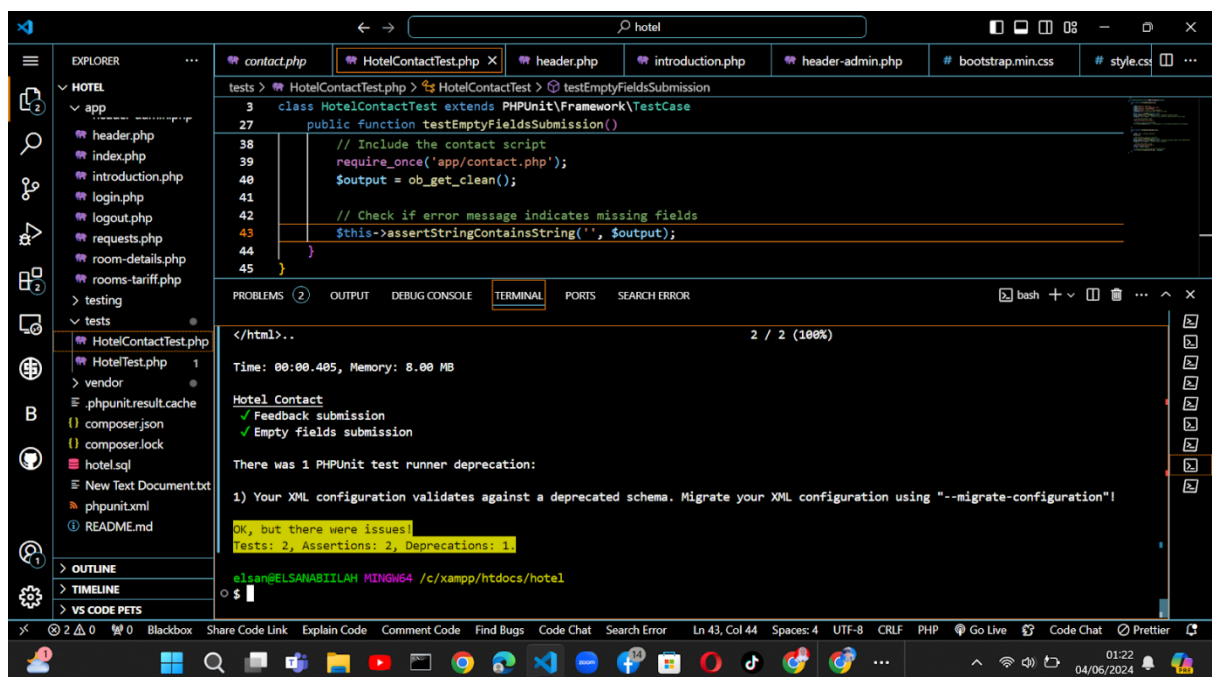
```
public function testEmptyFieldsSubmission()
{
    $_POST = []; // No data submitted
    ob_start();

    $mock = $this->createMock(\mysqli::class);
    $mock->method('query')->willReturn(true); // Simulate successful query
    $GLOBALS['con'] = $mock; // Replace actual connection

    require_once('app/contact.php');
    $output = ob_get_clean();

    // Check if error message indicates missing fields
    $this->assertStringContainsString('', $output);
}
```

Result



3. Login Admin

Kode program

- Fungsi 1 : login success

```
public function testLoginSuccess()
{
    $_POST = [
        'submit' => true,
        'username' => 'elsa',
        'password' => 'elsa'
    ];
    session_start();
    $error = login($this->con, $_POST['username'], $_POST['password']);

    $this->assertEquals('elsa', $_SESSION['username']);
    $this->assertEquals('admin', $_SESSION['role']);
    $this->assertEmpty($error);

    session_destroy();
}
```

- Fungsi 2 : login failure wrong password

```

public function testLoginFailureWrongPassword()
{
    $_POST = [
        'submit' => true,
        'username' => 'elsa',
        'password' => 'wrongpassword'
    ];

    session_start();
    $error = login($this->con, $_POST['username'], $_POST['password']);

    $this->assertEquals('Wrong Username or Password', $error);
    $this->assertArrayNotHasKey('username', $_SESSION);
    $this->assertArrayNotHasKey('role', $_SESSION);

    session_destroy();
}

```

- Fungsi 3 : login failure no existent user

```

public function testLoginFailureNonExistentUser()
{
    $_POST = [
        'submit' => true,
        'username' => 'nonexistent',
        'password' => 'password'
    ];

    session_start();
    $error = login($this->con, $_POST['username'], $_POST['password']);

    $this->assertEquals('Wrong Username or Password', $error);
    $this->assertArrayNotHasKey('username', $_SESSION);
    $this->assertArrayNotHasKey('role', $_SESSION);

    session_destroy();
}

```

Result

```

Configuration: C:\xampp\htdocs\note1\phpunit.xml
...
3 / 3 (100%)

Time: 00:00.172, Memory: 8.00 MB

Hotel Login
✓ Login success
✓ Login failure wrong password
✓ Login failure non existent user

There was 1 PHPUnit test runner deprecation:

1) Your XML configuration validates against a deprecated schema. Migrate your XML configuration using
OK, but there were issues!
Tests: 3, Assertions: 9, Deprecations: 1.

```

4. Add room (only admin)

Kode program

- Fungsi 1 : Add room success

```
class NoteAdderTest extends TestCase
{
    public function testAddRoomSuccess()
    {
        // Mock form data
        $_POST = [
            'submit' => true,
            'title' => 'Test Room',
            'post-data' => 'This is a test room',
            'size' => '100',
            'price' => '1000'
        ];

        // Mock file data
        $_FILES = [
            'image1' => [
                'name' => 'image1.jpg',
                'tmp_name' => 'path/to/tmp/image1.jpg'
            ],
            'image2' => [
                'name' => 'image2.jpg',
                'tmp_name' => 'path/to/tmp/image2.jpg'
            ],
            'image3' => [
                'name' => 'image3.jpg',
                'tmp_name' => 'path/to/tmp/image3.jpg'
            ],
            'image4' => [
                'name' => 'image4.jpg',
                'tmp_name' => 'path/to/tmp/image4.jpg'
            ],
        ];

        ob_start();
        include 'app/add-room.php';
        ob_end_clean();

        // Check if the room is added to the database
        $result = $this->con->query("SELECT * FROM rooms ORDER BY id DESC LIMIT 1");
        $room = $result->fetch_assoc();

        // Assertions
        $this->assertEquals('Test Room', $room['title']);
    }
}
```

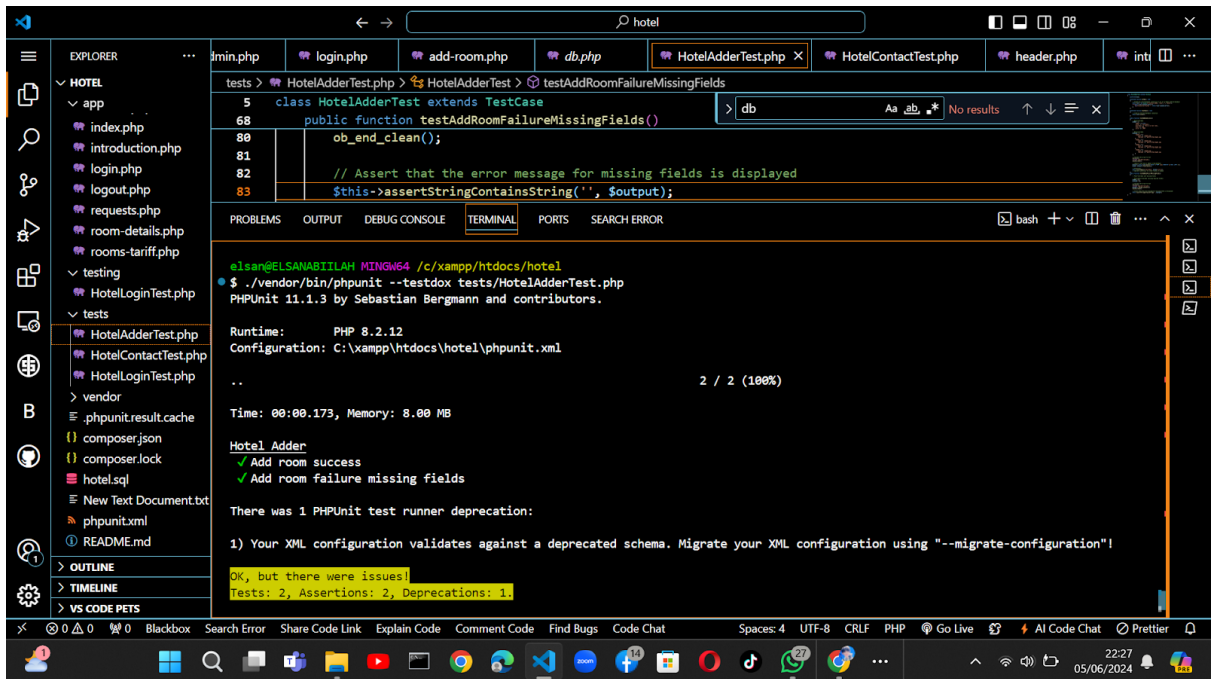
- Fungsi 2 : Add room failure missing fields

```
public function testAddRoomFailureMissingFields()
{
    $_POST = [];
    $_FILES = [];

    ob_start();
    include 'app/add-room.php';
    $output = ob_get_contents();
    ob_end_clean();

    $this->assertStringContainsString(' ', $output);
}
```

Result



5. Edit room (only admin)

Kode program

- Fungsi 1 : Edit Room success

```
public function testEditRoomSuccess()
{
    $id = 1;
    $title = 'New Room Title';
    $description = 'New Room Description';
    $size = '1000 sq';
    $price = '300';
    $image1 = 'image1.jpg';
    $image2 = 'image2.jpg';
    $image3 = 'image3.jpg';
    $image4 = 'image4.jpg';

    // Simulasikan pada proses edit room
    $error = editRoom($this->con, $id, $title, $description, $size, $price, $image1, $image2, $image3, $image4);
    // Periksa apakah error yang dikembalikan adalah null, artinya tidak ada kesalahan
    $this->assertNull($error);
}
```

- Fungsi 2 : Edit Room Invalid Id

```
public function testEditRoomInvalidId()
{
    $id = 999; // ID yang tidak ada dalam database
    $title = 'New Room';
    $description = 'New Room Description';
    $size = '1000 sq.';
    $price = '300';
    $image1 = 'image1.jpg';
    $image2 = 'image2.jpg';
    $image3 = 'image3.jpg';
    $image4 = 'image4.jpg';

    $error = editRoom($this->con, $id, $title, $description, $size, $price, $image1, $image2, $image3, $image4);

    $this->assertEquals("", $error);
}
```

- Fungsi 3 : edit room invalid data

```
public function testEditRoomInvalidData()
{
    $id = 1;
    $title = ''; // Judul kosong
    $description = 'New Room Description';
    $size = '1000 sq';
    $price = '300';
    $image1 = 'image1.jpg';
    $image2 = 'image2.jpg';
    $image3 = 'image3.jpg';
    $image4 = 'image4.jpg';

    $error = editRoom($this->con, $id, $title, $description, $size, $price, $image1, $image2, $image3, $image4);
    $this->assertEquals("", $error);
}
```

Result

Time: 00:00.141, Memory: 8.00 MB

Hotel Edit Room

- ✓ Edit room success
- ✓ Edit room invalid id
- ✓ Edit room invalid data

There was 1 PHPUnit test runner deprecation:

1) Your XML configuration validates against a deprecated schema. Migrate your X

OK, but there were issues!

Tests: 3, Assertions: 3, Deprecations: 1.

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