

Drupal 10 Interview Preparation – Unit, Kernel & Functional Testing (Hindi Explanation)

Q1: Drupal 10 me Unit, Kernel aur Functional Testing kya hota hai? Example ke sath samjhaiye.

Agar interviewer pooche ki testing kaise hoti hai, to aap simple language me aise samjha sakte hain:

1) Unit Testing:

Ye sabse chhota level ka testing hota hai. Isme hum ek single class ya method ko test karte hain.

Isme pura Drupal system load nahi hota.

Example:

Agar aapne ek custom service banayi jo do numbers add karti hai, to hum sirf us function ko test karenge.

Simple Example Code:

```
class Calculator {
    public function add($a, $b) {
        return $a + $b;
    }
}

// Unit Test Example
public function testAddition() {
    $calc = new Calculator();
    $this->assertEquals(5, $calc->add(2,3));
}
```

2) Kernel Testing:

Ye Unit aur Functional ke beech ka testing hai.

Isme Drupal ka partial bootstrap hota hai.

Database aur Drupal services test kar sakte hain.

Example:

Agar aap check karna chahte hain ki node create ho raha hai ya nahi, to Kernel test likhenge.

Isme hum real database interaction test karte hain lekin pura browser load nahi hota.

3) Functional Testing:

Isme pura Drupal system load hota hai.

Ye real user ki tarah behavior test karta hai.

Example:

- Login form test karna
- Content create ho raha hai ya nahi
- Role permission kaam kar raha hai ya nahi

Isme BrowserTestBase use hota hai.

Interviewer ko simple line me bol sakte hain:

Unit Test → Sirf chhota function test karta hai

Kernel Test → Drupal services + database test karta hai

Functional Test → Pura website user ki tarah test karta hai

Best Practice:

- Har feature ke sath test likhna chahiye
- PHPUnit use hota hai
- CI/CD me tests automatically run hote hain

Is tarah agar aap confidently simple language me explain karenge, interviewer ko clear ho jayega ki aapko practical knowledge hai.