

Measuring Code Coverage



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Code Coverage



A measure of how much source code is executed by tests



A good indicator of a project's quality but it is not perfect



Babel is used by Jest, by default, to facilitate measuring code coverage



4 metrics: statements, branches, functions, and lines



DiscountService.js

```
function calculatePrice(isSaleItem) {  
    let price = 1.00;  
  
    if (isSaleItem) {  
        console.log('Apply sale discount')  
  
        price = price * 0.5;  
    }  
    else {  
        console.log('Full price item')  
    }  
  
    return price;  
}
```

Overview

Collect code coverage statistics

Visualize code coverage

Configure coverage thresholds



Module Key Takeaways

Code coverage

- Amount of source code executed by tests
- Different ways to be measured

Code coverage with Jest

- Multiple ways to visualise results

Coverage thresholds

- Used to ensure a minimum level of code coverage is maintained



Course Key Takeaways

Importance of unit tests

Writing basic unit tests with Jest

Common matchers

Mocks & spies

Asynchronous tests

Code coverage



JavaScript Unit Testing with Jest



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