



# Angular 4 Unit Testing & more...

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# What is Automated Testing?

Writing code to test our code.

Separate code is written to test the whole app code.

## Facts:

- Increases development time a bit.
- Reduces testing time a lot.
- More quality product at the end.



## What are the types of Test?

- Unit Testing
- Integration Testing
- End to End Testing (e2e)



## Unit Testing in Angular 4

Scenarios:

- Testing a component
- Testing it without external resources / influence
  - Example: API endpoints, browsers



## Integration Testing in Angular 4

- Testing whole component with template, data and services



## End to End Testing in Angular 4

- Testing the whole app
- Testing with all components working together.



## What' Karma?

- Test Runner, created by AngularJS team long back.
- With just simple configs, developers can just write the code and get instant feedback from their tests.
- Read more here:  
<https://karma-runner.github.io/1.0/index.html>



## What's Jasmine?

- Behavior-driven development framework for testing JavaScript code.
- DOM not required to run Tests
- Easiest framework to write tests
- Read more here: <https://jasmine.github.io>





**Thank You**