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- How AngularJS makes Unit Testing Easy?
- Intro of Jasmine with Angular
- Important Function In Jasmine Library
- Basic Example of Testing Controller using Jasmine



How AngularJS makes Unit Testing Easy?

- Unit testing, as the name implies, is about testing individual units of code
- Goals of unit testing:
 - Take the smallest piece of testable code
 - Isolate it from remainder of the code
 - Determine whether it behaves exactly as you expect
- What makes unit testing easy in Angular
 - Dependency injection
 - Loose coupling with the DOM
 - Services that would otherwise be hard to test e.g. \$timeout, \$location, \$window



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Intro of Jasmine with Angular

- Jasmine is a behavior-driven development framework for testing JavaScript code
- Its popular choice for unit testing AngularJS applications
- Jasmine provides functions to help with structuring your tests and also making assertions.
- It does not depend on any other framework
- It does not require DOM



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Important Functions In Jasmine Library

 Grouping related tests within describe blocks and describing each individual test within an it call keeps your tests self documenting.



Important Functions In Jasmine Library

Finally, Jasmine provides matchers which let you make assertions: describe('sorting the list of users', function() it('sorts in descending order by default', function() var users = ['jack', 'igor', 'jeff']; var sorted = sortUsers(users); expect(sorted).toEqual(['jeff', 'jack', 'igor']); **})**; **})**;



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Basic Example of Testing Controller using Jasmine

- Below link points to an example that opens in plunkr.
- It depicts simple example of unit testing controller using jasmine library
 - <u>Example</u>



Unit Testing - Finding your way (1/2)

Technical Questions:

- 1. What is Karma?
- 2. What other unit testing frameworks can be used to unit test AngularJS?

As you start to work with AngularJS – unit testing, you will frequently encounter technical issues which are not covered by this training.

How will you resolve these technical issues on AngularJS – Unit Testing.



Unit Testing - Finding your way (2/2)

Resources	Remarks
https://docs.angularjs.org/guide/unit-testing	AngularJS official doc on unit testing
http://jasmine.github.io/1.3/introduction.html	Doc on Jasmine library
http://karma-runner.github.io/0.12/index.html	Good video on karma test runner
CurioCT - https://interct/SitePages/CurioCT.aspx	
CTCourses – Unit Testing	In addition to updated course material, CTCourse contains reference sites (Library) and list of project teams with expertise on Unit Testing



CurioCT - CitiusTech's Technology Q & A Forum



 In case of any questions please log on to https://interct/SitePages/CurioCT.aspx



Thank You

