



Test Driven Development - Backend

By : Dhirender Tyagi

Agenda

- What is test-driven development?
- Why Test?
- Mocha and Chai.
- Some Practical with RESTFull API.
- Some Practical with unit testing.

Test-driven development

It means you write your tests before you start your code, which make your code easier. To make this whole process a lot easier, you need easy-to-use and powerful testing and assertion frameworks.

Why Test?

- To check whether we pushed a bad commit to production and faced the consequences.
- Writing a solid test suite is a good sanity check.
- It makes you confident that your change is not breaking others changes.
- Increase the productivity by knowing your bugs in the early stage.
- Makes you in confident that your code is stable even your project get bigger.
- Make code quality better.

In this session we are going with mocha and chai to write test cases.

- **Mocha** : Mocha is a javascript framework which runs in Node.js. It allows Asynchronous testing. Let's say it provides the environment in which we can use our favorite assertion libraries to test the code.

Mocha comes with number of great features :

- simple async support, including promises.
- async test timeout support.
- before, after, before each, after each hooks.
- use any assertion library you want, Chai in our session.

- **Chai** : Chai is a TDD assertion library for node and the browser that can be delightfully paired with any javascript testing framework. We can use any preference we want:
 - should
 - expect
 - assert

DEMO

Thank you