

Unit Testing with Jest



Tools we will use



What will we do – step by step

- Create a simple Koa server
- Create a Mongo DB and connect with Mongoose
- Setup Jest
- Refactor the Controllers to enable dependency injection DB Model or Mock data.
- Isolate the Controller methods for unit testing

Setup Jest

Add jest as a dependency

```
npm i jest --save-dev
```

Edit the package.json

```
"scripts": {  
  "test": "jest --detectOpenHandles  
--config ./jest-config.js"  
},
```

Create `jest-config.js`

```
module.exports = {  
  testEnvironment: 'node'  
};
```

Setup Koa and Mongoose



Refactoring the Controllers

In order to use the same controller in *production* and for *testing*, controller needs to be created as a **class**.

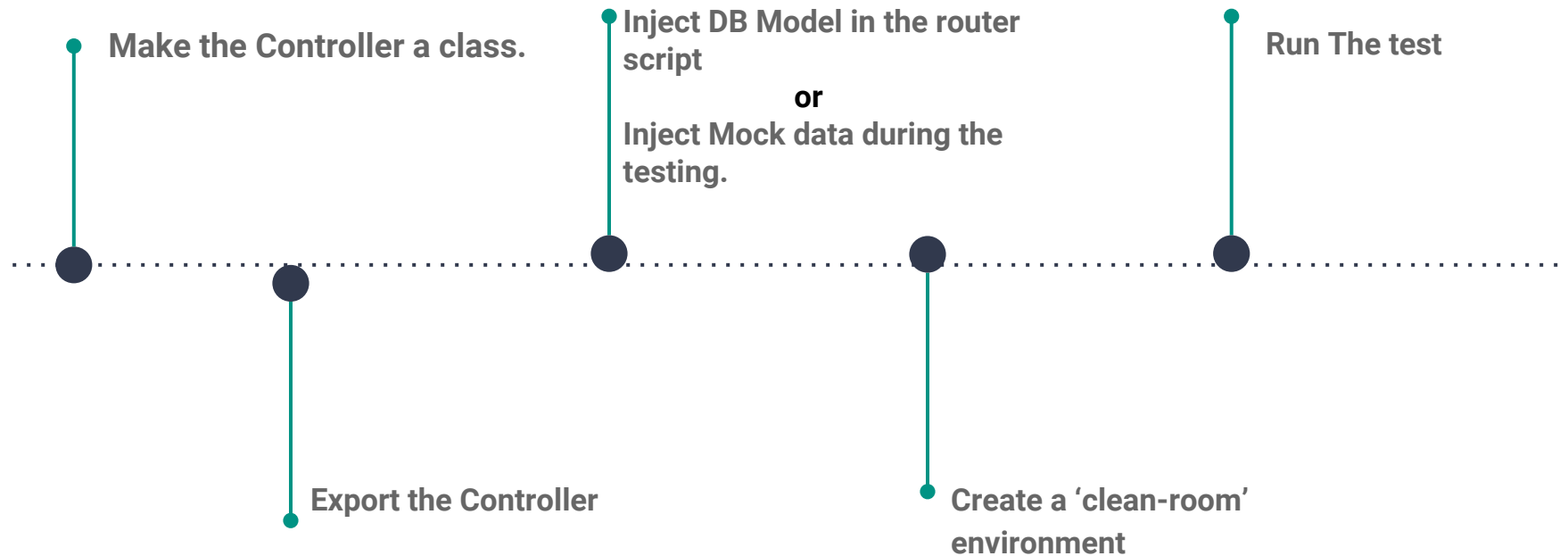
We will use this class to create the *production-controller* or *test-controller* instance.

Thing to remember:

Make It Classy !



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Thank You