

Node JS REST

1 Testing nodejs REST

1.1 Basic Approaches

- Using browser (manual)
 - Using Postman (partly automatic)
 - Using test scripts (automatic)
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1.2 browser-based testing

- GET is easy: just type in URL
 - POST is slightly harder: build HTML form
 - Other http methods more difficult
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1.3 Postman

- Originally a chrome plugin
 - Now standalone application <https://www.getpostman.com/>
 - Define a set of requests in a collection
 - Choose GET or POST (or other)
 - Include body parameters for POST
 - Use x-www-form-urlencoded
 - Can specify expected responses
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1.4 Test scripts

- There are very many javascript unit testing frameworks (mocha, jasmine)
 - I am using Jest
 - Read a recent review
 - npm install
 - Tests are js programs (as in junit)
 - Put tests in test directory or name .test.js
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1.5 Running tests

- Get it going first
 - Use nodemon to auto-restart server
 - Add test script to your package.json
 - run test with npm test
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package.json

```
{  
  "name": "seminargroups",  
  "main": "index.js",  
  "scripts": {  
    "test": "jest",  
    "dev": "nodemon index.js"  
  }  
  ...  
}
```

1.6 Separate out app from server

e.g. app.js file

```
const express = require('express');  
const app = express();  
// ... add routes  
module.exports = app;
```

e.g. index.js file

```
const app = require('./app');  
app.listen(8090);
```