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# Node.js

Node.js is a platform built on Chrome's JavaScript runtime for easily building fast, scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

The main reason I decided to use Node.js is because the REST API was serving JSON. Handling JSON on Node.js is simple as Node.js is a JavaScript backend server making it easier to manipulate the data being served.

# Express.js

Express.js is a minimal and flexible node.js web application framework, providing a robust set of features for building single and multi-page, and hybrid web applications.

http://expressjs.com/

# Jasmine-Node.js

Jasmine is an open source testing framework for JavaScript. I makes unit testing extremely easy and intuitive. I have had to use it in my API as my own testing framework Frisby.js runs on the Jasmine framework.

https://github.com/mhevery/jasmine-node

# Frisby.js

Frisby.js is a REST API testing framework built on node.js and Jasmine that makes testing API endpoints easy, fast, and fun. See below for my coding examples.

In my project I have put my tests into my /spec folder. In this folder I have named my test rest\_API\_spec.js. Naming your test files with a \_spec and the test runner picks up the files.

It is configured to run the test from the command line. After pulling the repository from github you open the terminal and navigate to the main folder containing the spec/ folder, web.js and the rest of the files. Then you run the command Jasmine-node spec/ and it runs all tests. Below is what you should see if all test pass.



# API Calls

|  |  |  |
| --- | --- | --- |
| **Method** | **HTTP request/ Curl requests** | **Description** |
| GET Calendars | GET /calendars  curl –I –X GET http://calendernodejs-lee.herokuapp.com/calendars/ | Retrieve all calendars currently persisted on the REST API. |
| GET Calendars by Id | GET /calendars/:id  curl –I –X GET <http://calendernodejs-lee.herokuapp.com/calendars/1> | Retrieve calendars by Id. |
| GET Calendars by User | GET /calendars/:user/getByUser  curl –I –X GET http://calendernodejs-lee.herokuapp.com/calendars/lee/getByUser | Retrieve calendars by user name. |
| Get Events Between start time end time | GET /calendars/:id/getEvents/:startTime/:endTime  Not working, had trouble with dates and time restrictions. | Retrieve events between the start time and End Time that is passed in the GET URL. |
| Insert Calendar | POST /calendars/new  curl -i –X POST http://calendernodejs-lee.herokuapp.com/calendars/new --data '{"userName":"lee","password":"password"}' -H "content-Type: application/json" | Create a new calendar by posting the username and password. |
| Insert Event | PUT /calendars/:id/newEvent  curl -i PUT http://calendernodejs-lee.herokuapp.com/calendars/2/newEvent --data '{"startTime":"13-06-2014 08:00:00","endTime":"15-12-2014 18:00:00"}' -H "content-Type: application/json" | Create an event on a calendar, by passing the calendar Id of which you want to add an event to. The event attributes are list in the example curl commands. |
| Update  Calendar | PUT /calendars/:id/updateCalendar  curl -i -X PUT http://calendernodejs-lee.herokuapp.com/calendars/1/updateCalendar --data '{"userName":"leeNew","password":"newPassword"}' -H "content-Type: application/json" | Update UserName and Password of a calendar by passing the id of the calendar you wish to update with the updated username and password. |
| Delete Event | DELETE /calendars/:id/deleteEvent/:eventId  curl -i -X DELETE http://calendernodejs-lee.herokuapp.com/calendars/1/deleteEvent/ --data -H "content-Type: application/json" | Delete an event on a calendar. Using the calendar id the event belongs to and then specifying the event you wish to remove. |
| Delete Calendar | DELETE /calendars/:id/delete  curl -i -X DELETE http://calendernodejs-lee.herokuapp.com/calendars/1/delete --data -H "content-Type: application/json" | Delete a calendar. Using the calendar id. |
| Delete All | DELETE /calendars/deleteAll  curl -i -X DELETE <http://calendernodejs-lee.herokuapp.com/calendars/deleteAll> -H "content-Type: application/json" | Delete all calendars |