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Module 2 Assignment Lab: RESTful Blog API

The assignment lab for this module is to build a RESTful Blog API. Unlike the tutorial labs, there will be no step by step instructions but all of the information you need to know should be in the modules. Please attempt to solve the assignment lab on your own before viewing the solution.

Assignment Instructions

Most often, servers have complex logic and business relations. This lab will solidify your Express skills and also allow you to practice splitting routes into multiple files for better code organization. The goal is to have a very small main file (server.js) which will allow you to work easily on very large Express projects.

Start with an RESTful Express API server by creating a new project and installing Express middleware which you think you'll need (the minimum is body-parser). Then, implement an Express application which has the following REST API endpoints:

- GET and POST /posts
- PUT and DELETE /posts/:postId/
- GET and POST /posts/:postId/comments
- PUT and DELETE /posts/:postId/comments/commentId

Some hints and constraints for the lab:

- Create a folder named routes.
- Implement all /posts routes in routes/posts.js and all /posts/:postId/comments routes in routes/comments.js.
- Use module.exports to export the functions created for posts and comments

- Use `require` to import posts and comments functions
- Create `routes/index.js` which imports and exports `posts.js` and `comments.js` so they can be used with `require('routes')` in `server.js`
- The removal of a blog post must remove all its comments.
- Use an in-memory store with the structure similar to this:

```
let store = {
  posts: [
    {name: 'Top 10 ES6 Features every Web Developer must know',
     url: 'https://webapplog.com/es6',
     text: 'This essay will give you a quick introduction to ES6. If you don\'t know ES6, you are missing out on a lot of cool features. This essay will give you a quick introduction to ES6. If you don\'t know ES6, you are missing out on a lot of cool features.',
     comments: [
       {text: 'Cruel....var { house, mouse} = No type optimization at all',
        id: 1},
       {text: 'I think you\'re undervaluing the benefit of \'let\' and \'const\'',
        id: 2},
       {text: '(p1,p2)=>{ ... } ,i understand this ,thank you !',
        id: 3}
     ]
    }
  ]
}
```

In the end, your `server.js` file will be small and only use `require` to plug routes for posts and comments. Here's the boilerplate for the `comments.js`. You need to fill in the blank and implement these four methods:

```
module.exports = {  
  getComments(req, res) {  
  
  },  
  addComment(req, res) {  
  
  },  
  updateComment(req, res) {  
  
  },  
  removeComment(req, res) {  
  
  }  
}
```

The posts.js file looks similar:

```
module.exports = {  
  getPosts(req, res) {  
  
  },  
  addPost(req, res) {  
  
  },  
  updatePost(req, res) {  
  
  },  
  removePost(req, res) {  
  
  }  
}
```

Test your server with Postman, CURL or any other HTTP agent or tester. For example, the CRUD commands are

```
//posts post data
curl -H "Content-Type: application/json" -X POST -d '{"name": "Top 10 ES6
Features", "url":"http://webapplog.com/es6", "text": ""}'
"http://localhost:3000/posts"

//updates post data at specific id
curl -H 'Content-Type: application/json' -X PUT -d '{"name": "Top 10 ES6
Features Every Developer Must Know", "url":"http://webapplog.com/es6",
"text": ""}' "http://localhost:3000/posts/0"

//gets post data
curl "http://localhost:3000/posts"

//deletes post data at specific id
curl -X DELETE "http://localhost:3000/posts/0"
```

Submission Instructions

To submit the assignment for feedback, put all the program files into GitHub and post a link to your code repository in the Assignment 2 Submissions section of the forums.

In addition to providing the GitHub link, please also answer the following questions about your project:

1. Walk us through the design of your project. Why did you design your project the way you did? What difficulties did you overcome?
2. How did you test your project to verify that it works? If you used any specific curl requests, let us know.
3. Let us know if anything doesn't work as intended so your reviewers will know ahead of time














A link to the forums submissions section is provided below:

Assignment 2 Submissions

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Topic: Assignment 2 Submissions / RESTful Blog API

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 lab routing blog api	

Feedback Instructions

Please provide feedback to your fellow students!

Please comment on the following:

1. Does the code work correctly? Download the code from the GitHub link and then run the server. Next, test the server by sending a few CURL requests to verify that the functionality is correct. There are several curl request examples shown at the bottom of the assignment instructions. Make sure to run 'npm install' to download all the required dependencies.
2. How does the code quality look? Does it make sense? Would you do anything different? What did you like about the code design?

Sample Feedback:

1. The code works as intended. I entered the following curl requests (curl ...) and verified that I can create, read, update and delete data.
2. The code was not organized well. All the logic was in one server file and when some of the logic should have been moved to separate files and imported.

Feedback Honor Agreement

1/1 point (graded)

Please review at least 2 assignment submissions in the forums. Try to review ones that haven't been reviewed yet. Once you have done so you can indicate that you have completed the assignment feedback by answer the question below.

I have reviewed at least 2 assignment submissions.

☐ I do not intend to review any assignments

☒ I have reviewed at least 2 assignment submissions ✓

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