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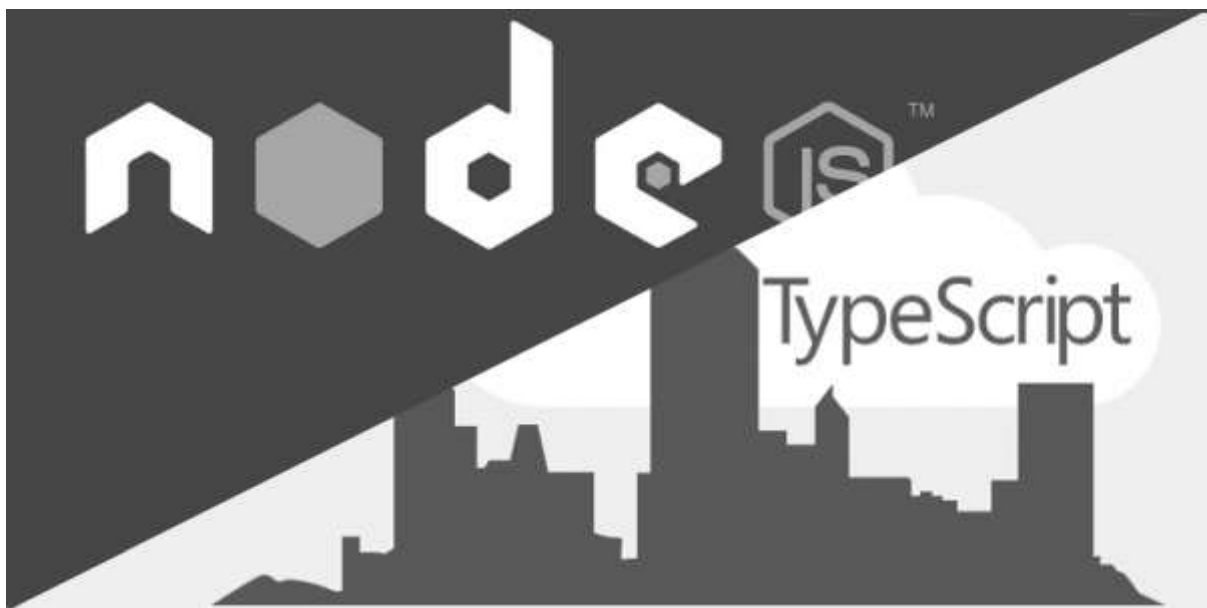
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Building RESTful Web APIs with Node.js, Express, MongoDB and TypeScript — Part 2



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(Image from OctoPerf)

There is a course about how to build a Web APIs on Lynda, but they didn't use TypeScript. So I decided to make one with TypeScript. There are lots of things that need to improve in this project. If you find one, please leave a comment. I'm appreciated that ;)

Part 1: Setting Up Project

Part 2: Implement routing and CRUD

Part 3: Using Controller and Model for Web APIs

Part 4: Connect Web APIs to MongoDB or others

Part 5: Security for our Web APIs

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In part 2, I will build the routing for the API.

Step 1: Create TS file for routing

Remember in part 1 of this project. We save everything in **lib** folder. So I will create **routes** folder with a file named **crmRoutes.ts** that will save all the routes for this project.

```
// /lib/routes/crmRoutes.ts

import {Request, Response} from "express";

export class Routes {
  public routes(app): void {
    app.route('/')
      .get((req: Request, res: Response) => {
        res.status(200).send({
          message: 'GET request successfull!!!!'
        })
      })
  }
}
```

After creating our first route, we need to import it to the **lib/app.ts**.

```
// /lib/app.ts

import * as express from "express";
import * as bodyParser from "body-parser";
import { Routes } from "../routes/crmRoutes";

class App {

  public app: express.Application;
  public routePrv: Routes = new Routes();

  constructor() {
    this.app = express();
    this.config();
    this.routePrv.routes(this.app);
  }
}
```

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Now, you can send GET request to your application (<http://localhost:3000>) directly or by using Postman.

Step 2: Building CRUD for the Web APIs

I assume that you have a basic understanding of HTTP request (GET, POST, PUT and DELETE). If you don't, it is very simple:

- GET: for retrieving data
- POST: for creating new data
- PUT: for updating data
- DELETE: for deleting data

Now we will build the routing for building a contact CRM that saves, retrieves, updates and deletes contact info.

```
// /lib/routes/crmRoutes.ts

import {Request, Response} from "express";

export class Routes {

  public routes(app): void {

    app.route('/')
      .get((req: Request, res: Response) => {
        res.status(200).send({
          message: 'GET request successfull!!!!'
        })
      })

    // Contact
    app.route('/contact')
      // GET endpoint
      .get((req: Request, res: Response) => {
        // Get all contacts
        res.status(200).send({
          message: 'GET request successfull!!!!'
        })
      })
  }
}
```

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```
    })  
  
    // Contact detail  
    app.route('/:contactId')  
    // get specific contact  
    .get((req: Request, res: Response) => {  
    // Get a single contact detail  
        res.status(200).send({  
            message: 'GET request successfull!!!!'  
        })  
    })  
    .put((req: Request, res: Response) => {  
    // Update a contact  
        res.status(200).send({  
            message: 'PUT request successfull!!!!'  
        })  
    })  
    .delete((req: Request, res: Response) => {  
    // Delete a contact  
        res.status(200).send({  
            message: 'DELETE request successfull!!!!'  
        })  
    })  
    })  
}
```

Now the routes are ready for getting HTTP request. This is the end of **Part 2**. I will update **Part 3**, **Part 4** and **Part 5** shortly. In case you need to jump a head. Please visit my github repository for the full code.

<https://github.com/dalenguyen/rest-api-node-typescript>

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