Exercise (Instructions): Express Router

Objectives and Outcomes

In this exercise, you will develop a web server that exports a REST API. You will use the Express framework, and the Express router to implement the server. At the end of this exercise, you will be able to:

- Use application routes in the Express framework to support REST API
- Use the Express Router in Express framework to support REST API

Setting up a REST API

- You will continue in the *node-express* folder and modify the server in this exercise.
- Install body-parser by typing the following at the command prompt:

```
npm install body-parser@1.18.3 -save
```

app.put('/dishes', (req, res, next) => {

res.end('PUT operation not supported on /dishes');

res.statusCode = 403;

});

Update index. is as shown below:

const bodyParser = require('body-parser');
...
app.use(bodyParser.json());
app.all('/dishes', (req,res,next) => {
 res.statusCode = 200;
 res.setHeader('Content-Type', 'text/plain');
 next();
});
app.get('/dishes', (req,res,next) => {
 res.end('Will send all the dishes to you!');
});
app.post('/dishes', (req, res, next) => {
 res.end('Will add the dish: ' + req.body.name + ' with details: ' + req.body.description);
});

```
app.delete('/dishes', (req, res, next) => {
  res.end('Deleting all dishes');
});
app.get('/dishes/:dishId', (req,res,next) => {
  res.end('Will send details of the dish: ' + req.params.dishId +' to you!');
});
app.post('/dishes/:dishId', (req, res, next) => {
 res.statusCode = 403;
 res.end('POST operation not supported on /dishes/'+ req.params.dishId);
});
app.put('/dishes/:dishId', (req, res, next) => {
 res.write('Updating the dish: ' + req.params.dishId + '\n');
 res.end('Will update the dish: ' + req.body.name +
     ' with details: ' + req.body.description);
});
app.delete('/dishes/:dishId', (req, res, next) => {
  res.end('Deleting dish: ' + req.params.dishId);
});
```

- Start the server and interact with it from the browser/postman.
- Do a Git commit with the message "Express Simple REST".

Using Express Router

- Create a new folder named *routes* in the *node-express* folder.
- Create a new file named *dishRouter.js* in the *routes* folder and add the following code to it:

```
const express = require('express');
const bodyParser = require('body-parser');

const dishRouter = express.Router();

dishRouter.use(bodyParser.json());

dishRouter.route('/')
.all((req,res,next) => {
  res.statusCode = 200;
  res.setHeader('Content-Type', 'text/plain');
```

```
next();
})
.get((req,res,next) => \{
   res.end('Will send all the dishes to you!');
})
.post((req, res, next) => \{
   res.end('Will add the dish: ' + req.body.name + ' with details: ' + req.body.description);
})
.put((req, res, next) => \{
   res.statusCode = 403;
   res.end('PUT operation not supported on /dishes');
})
.delete((req, res, next) => \{
   res.end('Deleting all dishes');
});
module.exports = dishRouter;
Update index.js as follows:
const dishRouter = require('./routes/dishRouter');
app.use('/dishes', dishRouter);
. . .
```

- Start the server and interact with it and see the result.
- Do a Git commit with the message "Express Router".

Conclusions

In this exercise, you used the Express framework and Express router to build a server supporting a REST API.