# Exercise (Instructions): Introduction to Express Part 2 I Coursera

### **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

• Create a new file named server-3.js and add the following code to it:

```
var express = require('express');
var morgan = require('morgan');
var bodyParser = require('body-parser');
var hostname = 'localhost';
var port = 3000;
var app = express();
app.use(morgan('dev'));
app.use(bodyParser.json());
app.all('/dishes', function(reg,res,next) {
      res.writeHead(200, { 'Content-Type': 'text/plain' });
      next();
});
app.get('/dishes', function(req,res,next){
        res.end('Will send all the dishes to you!');
});
app.post('/dishes', function(req, res, next){
     res.end('Will add the dish: ' + req.body.name + ' with details: ' +
req.body.description);
});
```

```
app.delete('/dishes', function(req, res, next){
        res.end('Deleting all dishes');
});
app.get('/dishes/:dishId', function(req,res,next){
        res.end('Will send details of the dish: ' + req.params.dishId +' to
you!');
});
app.put('/dishes/:dishId', function(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', function(req, res, next){
        res.end('Deleting dish: ' + req.params.dishId);
});
app.use(express.static(__dirname + '/public'));
app.listen(port, hostname, function(){
 console.log(`Server running at http://${hostname}:${port}/`);
});
```

Install body-parser by typing the following at the command prompt:

```
npm install body-parser --save
```

• Start the server and interact with it from the browser/postman.

## **Using Express Router**

• Create a new file named *server-4.js* and add the following code to it:

```
var express = require('express');
var morgan = require('morgan');
var bodyParser = require('body-parser');
var hostname = 'localhost';
```

```
var port = 3000;
var app = express();
app.use(morgan('dev'));
var dishRouter = express.Router();
dishRouter.use(bodyParser.json());
dishRouter.route('/')
.all(function(req,res,next) {
      res.writeHead(200, { 'Content-Type': 'text/plain' });
      next();
})
.get(function(req,res,next){
        res.end('Will send all the dishes to you!');
})
.post(function(req, res, next){
    res.end('Will add the dish: ' + req.body.name + ' with details: ' +
req.body.description);
})
.delete(function(req, res, next){
        res.end('Deleting all dishes');
});
dishRouter.route('/:dishId')
.all(function(req,res,next) {
      res.writeHead(200, { 'Content-Type': 'text/plain' });
      next();
})
.get(function(req,res,next){
        res.end('Will send details of the dish: ' + req.params.dishId +' to
you!');
})
.put(function(req, res, next){
```

Start the server and interact with it and see the result.

#### Conclusions

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