

Assignment 3

Step 1

```
mkdir express-app
cd express-app
npm init -y
npm install express
npm install nodemon --save-dev
```

```
mkdir data
touch data/data.json
touch file1.js file2.js file3.js
```

```
[
  { "id": 1, "name": "Object 1", "description": "This is object 1" },
  { "id": 2, "name": "Object 2", "description": "This is object 2" },
  { "id": 3, "name": "Object 3", "description": "This is object 3" },
  { "id": 4, "name": "Object 4", "description": "This is object 4" },
  { "id": 5, "name": "Object 5", "description": "This is object 5" },
  { "id": 6, "name": "Object 6", "description": "This is object 6" }
]
```

Step 2

```
// file1.js

// Import the express module
const express = require('express');

// Create an instance of express
const app = express();

// Define a GET route at the root that sends group names in HTML format
app.get('/', (req, res) => {
    res.send('<h1>Group Names</h1><ul><li>Group 1</li><li>Group 2</li><li>Group 3</li></ul>');
});

// Start the server on port 3000
const PORT = 3000;
app.listen(PORT, () => {
    console.log(`Server is running on http://localhost:${PORT}`);
});
```

Step 3

```
// file2.js

// Import the express module
const express = require('express');

// Create an instance of express
const app = express();

// Import the JSON data from the data folder
const data = require('./data/data.json');

// Define a GET route that sends JSON data
app.get('/data', (req, res) => {
  res.json(data);
});

// Start the server on port 3000
const PORT = 3000;
app.listen(PORT, () => {
  console.log(`Server is running on http://localhost:${PORT}`);
});
```

Step 4

```
// file2.js

// Import the express module
const express = require('express');

// Create an instance of express
const app = express();

// Import the JSON data from the data folder
const data = require('./data/data.json');

// Define a GET route that sends JSON data
app.get('/data', (req, res) => {
  res.json(data);
});

// Start the server on port 3000
const PORT = 3000;
app.listen(PORT, () => {
  console.log(`Server is running on http://localhost:${PORT}`);
});
```

```
// file2.js

// Import the express module
const express = require('express');

// Create an instance of express
const app = express();

// Import the JSON data from the data folder
const data = require('./data/data.json');

// Define a GET route that sends JSON data
app.get('/data', (req, res) => {
  res.json(data);
});

// Start the server on port 3000
const PORT = 3000;
app.listen(PORT, () => {
  console.log(`Server is running on http://localhost:${PORT}`);
});
```

Step 5

```
npx nodemon file1.js
npx nodemon file2.js
npx nodemon file3.js
```

Step 6

```
npx nodemon file3.js
```

```
[nodemon] 2.0.15  
[nodemon] to restart at any time, enter `rs`  
[nodemon] watching path(s): *.*  
[nodemon] watching extensions: js,mjs,json  
[nodemon] starting `node file3.js`  
Server is running on http://localhost:3000
```

Step 7

```
{  
  "description": "Updated description for object 1"  
}
```

```
[  
  {  
    "id": 1,  
    "name": "Object 1",  
    "description": "Updated description for object 1"  
  }  
]
```