

Data Centric Web Applications

Lab 9 ExpressJS IIII MongoDB

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Setup

Import *employeeDB.json* into MongoDB as follows:

```
mongoimport --db=database --collection=collection --file=file
```

- *mongoimport* is found in the bin folder of Mongo
- *database* is the database you want to import the data into
- *collection* is the collection within the database you want to import the data into
- *file* is the file that contains the data to import

For example:

```
mongoimport --db=employeesDB --collection=employees  
--file=C:\Users\Gerard\employeeDB.json
```

If you are using version 4.3 or older of MongoDB the `mongoimport.exe` file will be in the bin folder and should be run from the Windows Command Prompt.

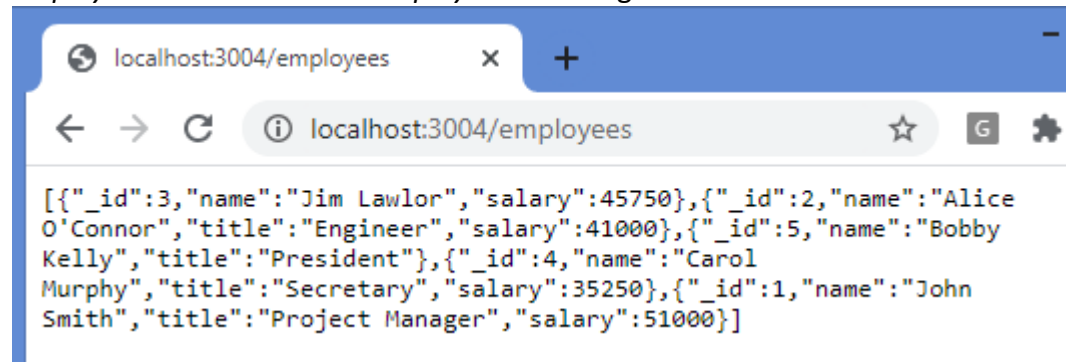
If you are using version 4.4 or newer of MongoDB `mongoimport.exe` will have to be downloaded separately from https://www.mongodb.com/try/download/database-tools?tck=docs_databasetools

Question 1

Write an Express JS application that handles a HTTP GET request on the following route:

- /

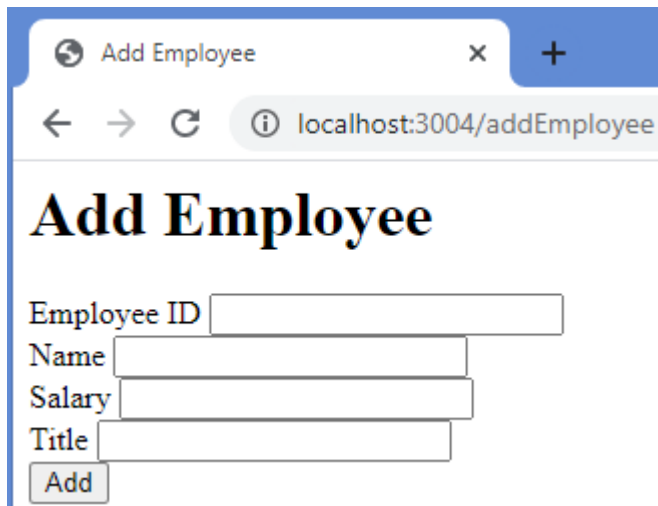
When a HTTP GET request is received on the / route, the client (browser) should be redirected to **/employees**, and the application should send back all details from the *employees* collection in the *employeesDB* Mongo database:



NOTE: All mongoDB related code should be in a separate file.

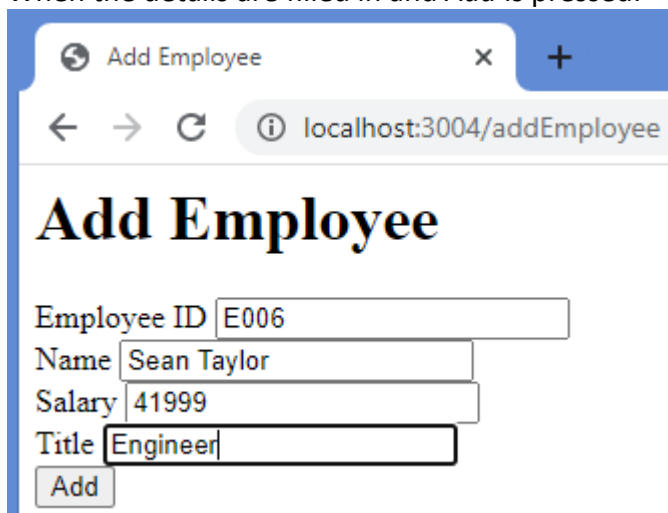
Question 2

Update question 1 so that when the user does a HTTP GET on **/addEmployee** he/she is presented with the following EJS view:



A screenshot of a web browser window. The title bar shows 'Add Employee' with a close button (x) and a new tab button (+). The address bar shows 'localhost:3004/addEmployee'. The main content area has a large heading 'Add Employee'. Below the heading are four text input fields labeled 'Employee ID', 'Name', 'Salary', and 'Title'. At the bottom left of the form is a button labeled 'Add'.

When the details are filled in and *Add* is pressed:



A screenshot of a web browser window, identical to the one above but with the form fields filled. The 'Employee ID' field contains 'E006', the 'Name' field contains 'Sean Taylor', the 'Salary' field contains '41999', and the 'Title' field contains 'Engineer'. The 'Add' button is still present at the bottom left.

If the details were successfully added to the *employees* collection in the *employeesDB* database the user should be redirected to **/employees**:



If however, the new document was not added, due to an already existing Employee ID being added:

A screenshot of a web browser window with the address bar showing `localhost:3004/addEmployee`. The page title is "Add Employee". The form contains the following fields and values:

- Employee ID:
- Name:
- Salary:
- Title:
-

The user should be shown an appropriate error message:

