Question1

On thunderclient

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Check the console in VScode, what is the output?

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Check the Compass, is the new record added to “Employee” collection inDatabase?

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B) Open browser and enter http://localhost:8000/api/employees . What is the output?

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C) Using any \_id of any employee records in database, run the following query in thebrowser:o http://localhost:8000/api/employees/618cf962f36b27c5379212b7 . What is theoutput?

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1. How does the Step3:A, B,C work? Explain the workflow, route, and the way the queryexecuted

First we create new employee record using Employee.create().After creation we use Employee.find() to fetch and to send back a response we chain the promises using then() to handle exceptions

For getting an employee by an id we use Employee.findbyid(),if we find send response else throw an error.

What is the role of:a.

module.exports = mongoose.model('Employee', EmpSchema);

mongoose.model takes two arguments name of the model and schema that defines the structure of the documents for the model

module.exports makes it accessible for use in other parts of the application

b. Employee.findByIdAndUpdate

It is a Mongoose method used to find a document by its ID and update it with the provided data.

Using the idea of Step3:C, try to update one of the record in the employee table .Findrelated route ☺ in the code and explain how it works

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App.put which route is specified in intent to update, using employee id we find the specific record that need to be updated . To extract the record using of the specific employeeid we use req.params.employeeid and to update mongoose has findbyidandupdate method.

Using the idea of Step3:C, try to delete one of the record in the employee table. Findrelated route ☺ in the code and explain how it works

Before deletion

A screenshot of a computer

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A screenshot of a computer

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After deletion

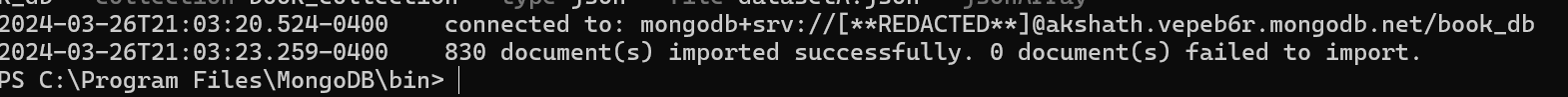
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App.delete which route is specified in intent to update, using employee id we find the specific record that need to be updated . To extract the record using of the specific employeeid we use req.params.employeeid and mongoose has a method findbyidanddelete

Question2:

Step 1: Create a new MongoDB database in Atlas based on the given dataset ofAssignment2.



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Step 2: Redesign the route/code in Question1 and set it up to work with book-data insteadof employee data

▪ Show all book-info

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Show a specific book (based on the \_id or isbn)

A screenshot of a computer

Description automatically generated

Insert a new book

A screenshot of a computer screen

Description automatically generated

A screenshot of a computer

Description automatically generated

Delete an existing book (based on the \_id or isbn)

Before deletion

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

After deletion A screenshot of a computer

Description automatically generated

Update "title" & “price” of an existing book

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Using Handlebar and Form complete the followings (hint:use ideas fromAssingment2):

Show all book-info

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Insert new book

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Description automatically generated

Question 3) Open the attached sample JS file. This program use setTimeout() to simulate arunning two tasks in asynchronous way. Complete the following steps

Step 1: and run it using nodemon. Look at the output of the program

A screen shot of a computer program

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Step 2: What if you remove wait from Task1, any error? Explain what you have learned

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Without waiting for asynchronous operations to finish, your program might not behave as expected, leading to bugs and unexpected results

Step 3: What if you remove all await/async from the task1 and 2. How do you explainchanges in the output compare to Step 1?

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if you remove all instances of await and async from both Task1 and Task2, the code will execute without any syntax errors, but it will behave differently from Step 1.