Final Module B

Due Dec 15 at 11:59pm   **Points** 20   **Questions** 20
Time Limit 40 Minutes

Instructions

The final exam is comprehensive, though the second portion of the course is emphasized. In addition to questions on the readings, there may be questions regarding the Bookstore project. You only have 40 minutes to complete 20 questions, therefore you may want to create a page of written notes for yourself to avoid having to look a lot of things up.

Major topics (about 10 questions total in 4 modules):

- HTML & CSS (including Flexbox)
- Internetworking, HTTP, and webapp architecture
- Javascript (including code, promises, and arrow functions)
- DAO (including find & create methods, and model classes)

Significant topics (about 5 questions total in 4 modules):

- Ajax, DOM, and Fetch
- Vuex and storage
- Vue components
- Databases and SQL
- Bookstore admin (including file layout, IntelliJ, and deployment)
- Vue directives
- Vulidate and validation
- SSL/TLS and cryptography
- SubmitOrder overview
- REST API (including naming, and Jersey & Jackson)

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	24 minutes	20 out of 20

Score for this quiz: **20** out of 20
Submitted Dec 5 at 4:54pm
This attempt took 24 minutes.

Question 1	1 / 1 pts

You can use a CSS id selector in multiple web pages, as long as the id is unique within each page

Correct!

  ⦿ True

  ◯ False

Question 2	1 / 1 pts

JavaScript can change HTML content and style, but it cannot change attributes

  ◯ True

Correct!

  ⦿ False

Question 3	1 / 1 pts

A typical HTTP <u>request</u> contains a status code (200, 401, etc), content-type (text, image, etc), and content in the body of the request.

  ◯ True

Correct!

  ⦿ False

Question 4   1 / 1 pts

A JavaScript Promise has 2 internal states: state and result. Which of the following are NOT potential values for those properties.

○ state: "fulfilled"
   result: value

Correct!

◉ state: "modified"
   result: null

○ state: "pending"
   result: undefined

○ state: "rejected"
   result: error

Question 5   1 / 1 pts

Which of the following would be best suited for the UDP protocol?

○ an Amazon checkout process

○ Google mail delivery

Correct!

◉ a Skype voice conversation

○ Netflix movie streaming

Question 6   1 / 1 pts

Suppose you have created model classes and DAO classes based on your database tables. You determine that an additional find method would be useful to you beyond the default ones created. Where is the most reasonable place to put the find method?

Correct!

○ in your DAO class

○ in your REST API resource class (on the server)

○ in your API service (on the client)

○ in your model class

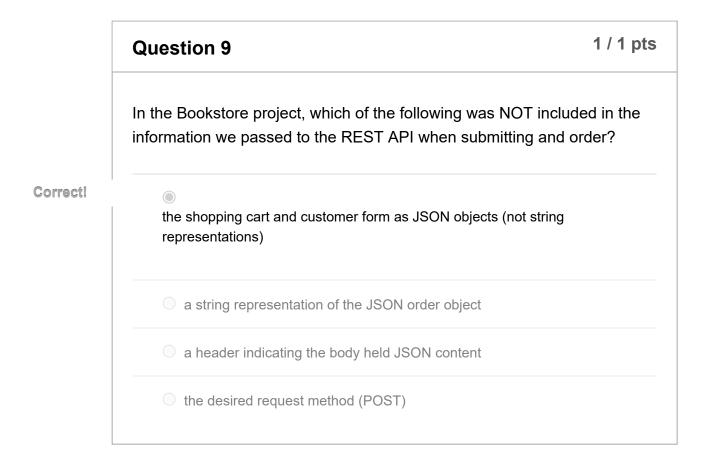## Question 7   1 / 1 pts

In a POST request, the request parameters are found in the request body (payload). Where are they found in a GET request?

○ They are appended to the URL after a colon symbol ':'

○ They are also the the request body - the only difference between the text of the GET and POST request is the method name

○ A get request cannot contain request parameters

Correct!

○ They are appended to the URL after a question mark symbol '?'

Question 8   1 / 1 pts

If one customer can place many orders, then which of the following statements is most likely to be true about a customer table and an order
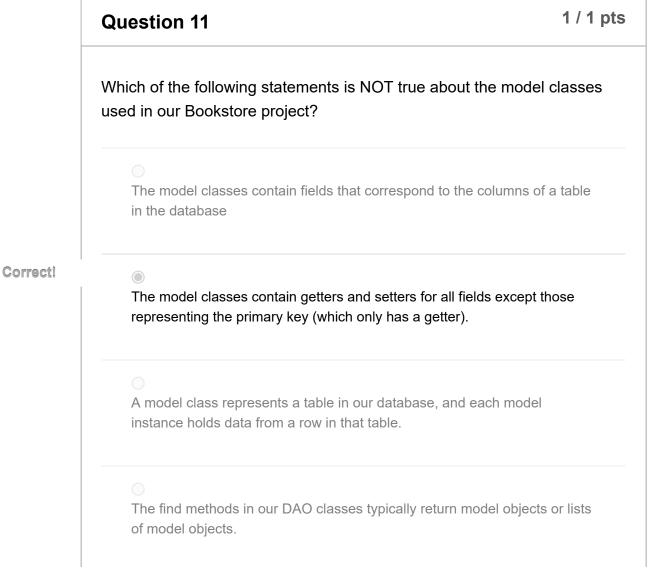
table in a relational database.

○

Both the customer table and the order table have foreign keys that correspond to the primary key of the other table

○

The customer table has a foreign key that corresponds to the primary key of the order table

○ Neither the customer nor the order table require foreign keys

Correct!

◉

The order table has a foreign key that corresponds to the primary key of the customer table

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Question 9   1 / 1 pts

In the Bookstore project, which of the following was NOT included in the information we passed to the REST API when submitting and order?

Correct!

◉

the shopping cart and customer form as JSON objects (not string representations)

○ a string representation of the JSON order object

○ a header indicating the body held JSON content

○ the desired request method (POST)

Question 10   1 / 1 pts

What is the SQL command for accessing all the records from a table
named Persons when the column firstName is Fred?

Correct!

- ◉ SELECT * FROM Persons WHERE firstName='Fred'

- ○ SELECT * FROM Persons IF firstName='Fred'

- ○ SELECT ALL FROM Persons WHERE firstName='Fred'

- ○ SELECT ALL Persons IF firstName='Fred'

Question 11   1 / 1 pts

Which of the following statements is NOT true about the model classes
used in our Bookstore project?

- ○ The model classes contain fields that correspond to the columns of a table
  in the database

Correct!

- ◉ The model classes contain getters and setters for all fields except those
  representing the primary key (which only has a getter).

- ○ A model class represents a table in our database, and each model
  instance holds data from a row in that table.

- ○ The find methods in our DAO classes typically return model objects or lists
  of model objects.

Question 12   1 / 1 pts

In Vue, we can use the `v-on` directive to listen to DOM events. How do we stop an event (for example a button click) from reloading the page?

○ `v-on:click:none="..."`

○ `v-on:click.noreload="..."`

○ `v-on:click="..." v-if="!reload"`

Correct!   ◉ `v-on:click.prevent="..."`

Question 13   1 / 1 pts

This small and fast JavaScript library is intended to simplify JavaScript programming by making it easier to manipulate the DOM. Here is an example of it's use:

```
$("#hide").click(function(){
    $("p").hide();
});
```

○ Angular

○ Vue

○ React

Correct!   ◉ jQuery

Question 14

1 / 1 pts

What is the type of x in the following JavaScript code?

```
var x = {firstName:"John", lastName:"Doe"};
```

○ Map

Correct!

◉ Object

○ String

○ Array

Question 15

1 / 1 pts

One reason AJAX is so effective is because all modern browsers support:

○ the XMLHttpServlet object

○ the XMLHttpSession object

○ the XMLHttpResponse object

Correct!

◉ the XMLHttpRequest object

Question 16

1 / 1 pts

Suppose I wanted to return only the first 3 books from a particular category. What would be an appropriate REST API call that would allow

me to do that? (Note: that capability may not be in your current Bookstore project)

Correct!

○ api/categories/mystery/books/3

◉ api/categories/name/mystery/books?limit=3

○ api/categories/mystery/books?limit=3

○ api/categories/name/mystery/books/3

Question 17   1 / 1 pts

Which of the following is a potential drawback of public key cryptography?

○ It cannot be used for authentication

Correct!

◉ It is slower than secret key cryptography

○ It cannot be used for digital signatures

○ Both parties need to share the same key

Question 18   1 / 1 pts

The `v-model` directive creates a two-way data binding on form input. How do you ensure that the data is not updated as soon as you start typing in the form, but waits until you hit enter of the input field loses focus?

○ use a CSS style to hide the input field until it you hit return

Correct!

◉ use the .lazy modifier

○ use the .wait modifier

○ use a v-if statement at the form level to check for focus

Question 19   1 / 1 pts

This library converts JSON to Java and back again

○ jQuery

Correct!   ◉ Jackson

○ validator

○ Jersey

Question 20   1 / 1 pts

In the Bookstore project DAO classes, which of the four types of CRUD methods were actually implemented?

○ create, read, and update

○ create, read, update, and delete (all 4)

Correct!   ◉ create and read

○ read only

Quiz Score: **20** out of 20