Data Storage Quiz

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* Required

MongoDB can do something equivalent to relational database joins. *   4 points

🔘 Yes

⚪ No

The equivalent of a "row" in a relational database is called a _____ in *   4 points
a MongoDB database.

⚪ collection

⚪ database

🔘 document

⚪ table

Which Express.js middleware is popular for handling files uploaded from client-to-server?   * 4 points

○ body-parser

○ dotenv

○ express-validator

○ mongoose

○ morgan

◉ multer

The code, « SELECT common_name, image_path FROM animals WHERE id=2 », is written entirely in...   * 4 points

○ Javascript

○ JSON

○ CSV

◉ SQL

Which Express.js middleware is popular for interfacing with a MongoDB database from the back-end code? * 4 points

○ body-parser

○ dotenv

○ express-validator

● mongoose

○ morgan

○ multer

It is a great idea to store app user's passwords as plain text in a database. * 2 points

○ True

● False

How would data about a username and password typically be stored in a document-oriented database such as MongoDB (if you were to store such data there as plain text)? * 4 points

○ as key/value pairs stored as text, such as "username=foobarstein" and "password=1234!"

○ as JSON text (or a variation of JSON text), such as { "username": "foobarstein", "password"="1234!" }

● as row/column data, similar to a spreadsheet, where there might be a row for every user of an app with a column for their username, another column for their password, etc.

Which hidden file is often used to make sure secret credentials, such as the username and password for a database, are not tracked by version control?

* 4 points

(•) .env

( ) .gitignore

( ) .prettierrc.js

Which hidden file is often used to store secret credentials, such as the username and password for a database.

* 4 points

(•) .env

( ) .gitignore

( ) .prettierrc.js

Which are data storage technologies that can be accessed directly from server-side code?

* 4 points

[ ] Cookies

[ ] Local Storage

[✓] Server-side databases, such as MS SQL and MongoDB

[✓] The file system of whichever machine the code is running on.

[✓] Serverless databases, such as Google Firebase

Serverless databases do not have servers. *   4 points

○ True

◉ False

Relational databases can do something equivalent to MongoDB's storing   * 4 points
one document nested within a field of another document.

◉ Yes

○ No

How would data about a username and password typically be stored in a   * 4 points
relational database such as MS SQL (if you were to store such data there
as plain text)?

○ as key/value pairs stored as text, such as "username=foobarstein" and
  "password=1234!"

○ as JSON text (or a variation of JSON text), such as { "username": "foobarstein",
  "password"="1234!" }

◉ as row/column data, similar to a spreadsheet, where there might be a row for every
  user of an app with a column for their username, another column for their password,
  etc.

Which Express.js middleware is popular for loading credentials, such as the username and password for a database, from environmental variables into the back-end code?

* 4 points

○ body-parser

◉ dotenv

○ express-validator

○ mongoose

○ morgan

○ multer

Making a call from Express.js back-end code to a MongoDB or relational database would generally be done as an asynchronous call so the back-end code would not need to halt while waiting for the response.

* 2 points

◉ True

○ False

The code, « Animal.findOne({ id: 2 }) » , is written entirely in... *

4 points

◉ Javascript

○ JSON

○ CSV

○ SQL

How would data about a username and password typically be stored in Local Storage (if you were to store such data there as plain text)?   * 4 points

○ as key/value pairs stored as text, such as "username=foobarstein" and "password=1234!"

◉ as JSON text (or a variation of JSON text), such as { "username": "foobarstein", "password"="1234!" }

○ as row/column data, similar to a spreadsheet, where there might be a row for every user of an app with a column for their username, another column for their password, etc.

_____ is a client-side data storage mechanism where saved data is automatically sent to the server with every HTTP request.   * 4 points

☑ Cookies

☐ Local Storage

☐ Server-side databases, such as MS SQL and MongoDB

☐ The file system of whichever machine the code is running on.

☐ Serverless databases, such as Google Firebase

Which are data storage technologies that can be accessed directly from client-side code?   * 4 points

☑ Cookies

☑ Local Storage

☐ Server-side databases, such as MS SQL and MongoDB

☐ The file system of whichever machine the code is running on.

☐ Serverless databases, such as Google Firebase

It is easy for a knowledgeable user of an app or web site to fiddle with any   * 4 points
data stored on the server-side.

○ True

◉ False

It is easy for a knowledgeable user of an app or web site to fiddle with any   * 4 points
data stored on the client-side.

○ True

◉ False

A "join" in a relational database is ...   4 points

○ the composition of one document holding another document as a nested sub-
   document.

◉ the linking of two related rows from two tables into a single result set of data

Clear selection

How would data about a username and password typically be stored in a   * 4 points
cookie (if you were to store such data there as plain text)?

◉ as key/value pairs stored as text, such as "username=foobarstein" and
   "password=1234!"

○ as JSON text (or a variation of JSON text), such as { "username": "foobarstein",
   "password"="1234!" }

○ as row/column data, similar to a spreadsheet, where there might be a row for every
   user of an app with a column for their username, another column for their password,
   etc.

The equivalent of a "table" in a relational database is called a _____ in * 4 points
a MongoDB database.

◉ collection

◯ database

◯ document

◯ row

Most work in SQL and NoSQL databases alike consists of... *   4 points

◉ CRUD

◯ INVEST

◯ LAMP

◯ MEAN

◯ MERN

◯ TRIPP-y

SQLite is a variety of ... *   4 points

◉ relational database

◯ document-oriented database

◯ other NoSQL database

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