Data Storage Quiz

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* Required

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

How would data about a username and password typically be stored in a cookie (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.

SQLite is a variety of ... *   4 points

○ ● relational database

○ document-oriented database

○ other NoSQL database

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

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

It is a great idea to store app user's passwords as plain text in a database. *   2 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   * 4 points
Local Storage (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   * 4 points
the username and password for a database, from environmental variables
into the back-end code?

○   body-parser

○   dotenv

○   express-validator

○   mongoose

○   morgan

◉   multer

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

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

○ collection

○ database

◉ document

○ table

Which hidden file is often used to make sure secret credentials, such as   * 4 points
the username and password for a database, are not tracked by version
control?

○ .env

◉ .gitignore

○ .prettierrc.js

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 interfacing with a MongoDB   * 4 points
database from the back-end code?

○ body-parser

◉ dotenv

○ express-validator

○ mongoose

○ morgan

○ multer

How would data about a username and password typically be stored in a   * 4 points
document-oriented database such as MongoDB (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 handling files uploaded from client-to-server? * 4 points

○ body-parser

○ dotenv

○ express-validator

◉ mongoose

○ morgan

○ multer

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

◉ True

○ False

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

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

○ Yes

⦿ No

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

The code, « Animal.findOne({ id: 2 }) » , is written entirely in... *   4 points

○ Javascript

⦿ JSON

○ CSV

○ SQL

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

Serverless databases do not have servers. *   4 points

○ True

⦿ False

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

☑ 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

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

○ Javascript

○ JSON

○ CSV

⦿ SQL

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