Data Storage Quiz

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* Required

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

- [ ] Cookies
- [ ] Local Storage
- [x] Server-side databases, such as MS SQL and MongoDB
- [ ] The file system of whichever machine the code is running on.
- [x] Serverless databases, such as Google Firebase

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

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

- [x] Cookies
- [x] Local Storage
- [ ] Server-side databases, such as MS SQL and MongoDB
- [ ] The file system of whichever machine the code is running on.
- [x] Serverless databases, such as Google Firebase

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

- (•) Yes
- ( ) No

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

- ( ) True
- (•) False

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

- ◉ CRUD
- ○ INVEST
- ○ LAMP
- ○ MEAN
- ○ MERN
- ○ TRIPP-y

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

Serverless databases do not have servers. *   4 points

- ○ True
- ◉ False

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

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

- ○ Yes
- ◉ No

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.

How would data about a username and password typically be stored in a *relational database such as MS SQL* (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

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

◉ collection

○ database

○ document

○ row

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.

SQLite is a variety of ... * 4 points

◉ relational database

○ document-oriented database

○ other NoSQL database

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.

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 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

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

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

○ collection

○ database

◉ document

○ table

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

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

○ True

◉ False

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

○ body-parser

○ dotenv

○ express-validator

○ mongoose

○ morgan

◉ multer

_____ 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

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