

# Data Storage Quiz

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**\* Required**

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

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.



MongoDB can do something equivalent to relational database joins. \*

4 points

- ☒ Yes
- ☐ No

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

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 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

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.

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 data stored on the server-side. \* 4 points

- ☐ True
- ☒ False

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

- ☐ True
- ☒ False

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

- ☒ CRUD
- ☐ INVEST
- ☐ LAMP
- ☐ MEAN
- ☐ MERN
- ☐ TRIPP-y



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



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

\_\_\_\_\_ 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

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

- ☒ Javascript
- ☐ JSON
- ☐ CSV
- ☐ SQL



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

- ☒ collection
- ☐ database
- ☐ document
- ☐ row

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

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 code, « SELECT common\_name, image\_path FROM animals WHERE id=2 », is written entirely in... \* 4 points

- ☐ Javascript
- ☐ JSON
- ☐ CSV
- ☒ SQL

SQLite is a variety of ... \* 4 points

- ☐ relational database
- ☒ document-oriented database
- ☐ other NoSQL database

Serverless databases do not have servers. \* 4 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.

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

- ☒ Yes
- ☐ No

The equivalent of a "row" in a relational database is called a \_\_\_\_\_ in a MongoDB database. ★ 4 points

- ☐ collection
- ☐ database
- ☒ document
- ☐ table



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

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