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Web & Internet Programming

3/18/24

Homework #8

Question 1.

Escaping data refers to changing certain string characters in a data entry so that the data is not misinterpreted as code or a command. This is particularly important for avoiding certain attacks such as entering malicious javascript code or commands that manipulate the database. Certain characters such as quotes, semicolons, and backlashes could be interpreted as commands by the computer when entered into a form by a user. Therefore, these characters need to be escaped.

Question 2.

1. REST makes it easier for systems to communicate with each other by providing standards between computer systems on the web in an architectural style. Statelessness means that the server does not need to know anything about what state the client is in and vice versa. This allows the server and the client to understand any message received, even without seeing previous messages.
2. A resource is any object, document, or thing that you may need to store or send to other services.
3. i. The proper way to create a path for a list of users would be to exclude the use of an id in the path. For example, the URL path would be fashionboutique.com/customers when referring to a list or collection of resources. This would not need an id because the server will generate an id for the new object. Likewise, the an HTTP request for a list would be GET <http://fashionboutique.com/customers>

Accept: application/json

ii. To get a particular user, it is important to include an id. An example of this would be a path like fashionboutique.com/customers/223, since it points to a specific customer id. The HTTP request would look like: GET <http://fashionboutique.com/customers/123>

Accept: application/json.

iii. To save a user, we can use HTTP and user methods to create a new user in the database. The HTTP version would be:

POST <http://fashionboutique.com/customers>

Body:

{

“customer”: {

“name” = “Scylla Buss”,

“email” = [Scylla.buss@codecademy.org](mailto:Scylla.buss@codecademy.org)

}

}

The url would include ‘/users’ at the end of the path to save the user.

Question 3.

Cookies are text files with data that is used to recognize a user visiting a website. Data in the cookie is created by the server upon the user’s connection to the website. The data is labeled with a unique ID to that particular user. This helps the server know what information is specific to the user, and can help personalize the browsing experience.

Question 4.

A session is created as soon as a client logs in to a database. The session remains active until the client logs out or the session is terminated for another reason. The session allows the database to follow the client’s activity and track commands that they execute or changes they make to the data.