For this week’s discussion board assignment, complete the following:

* **Describe what “Cache-Control” is and how it is used.** Cache-Control is an HTTP header, which holds instructions for caching both the request that is asked for and the responses that are sent back. It is to help eliminate the need to send requests and to eliminate the need to send full responses. This helps to cut down the number of network round-trips, reducing the needed bandwidth requirements. (W3.)
* **List and describe the available options for managing security in a REST API.** 
  + Always used HTTPS – by using SSL the authentication credentials can be simplified to a random generated access token. (Restfulapi.)
  + Use password hash – Hashed passwords protect the system even if someone is able to compromise it. (Restfulapi.)
  + Don’t expose information on URLs – passwords, usernames, tokens ect should never appear in the URL because they can be captured by server logs. (Restfulapi.)
  + OAuth – Authorization framework that allows third-part applications to obtain limited access to HTTP services either on behalf of the resource owner or by getting approval between the resource owner and the HTTP service or by allowing the third-party app to obtain on the behalf of. (Restfulapi.)
  + Timestamps in the request – Add a timestamp to an HTTP custom header in the API request. The server will compare the current and the request timestamp and only request it if its within a reasonable timeframe. (Restfulapi.)

Bibliography

Restfulapi. (2020). REST. Retrieved August 23, 2020, from https://restfulapi.net/security-essentials/

W3. (2020). Caching in HTTP. Retrieved August 23, 2020, from https://www.w3.org/Protocols/rfc2616/rfc2616-sec13.html