**Review Questions**

1. How to make an image to show up on top of all other elements?

**Solution**: declare the z-index property of the image and set to 999 in the CSS file.

**Sample Code**:

PHP file:

<img class="top\_image" src="./Piggy.jpg">

Corresponding CSS file:

.top\_image {

z-index: 999

}

1. Can we determine the following with certainty?
   1. The server-side scripting framework? (e.g., JSP, ASP.NET, Apache+PHP)

**Solution**: send a request to the server and get scripting framework information from the headers in the response.

**Sample Header in Response**:

ASP.NET:

Server: Microsoft-IIS/10.0

X-Powered-By: ASP.NET

Apache+PHP:

Server: Apache/2.4.29 (Win32) OpenSSL/1.1.0g PHP/7.2.1

X-Powered-By: PHP/7.2.1

* 1. [http://some\_domain/somefile.txt](http://some_domain/path1/file.txt) is generated dynamically (i.e., not a static content)

1. What information about a user/client can you usually determine from a HTTP request?
2. When should one use GET method and when should one use POST method to send data?
3. Why is validating form input at both the client’s and the server’s ends a good practice?
4. Without using XML or JSON, can a web client exchange data with a server-side script using Ajax? How?
5. Consider the following segment of code in JavaScript:

var A = new Array();

var B = new Object();

A[1] = 100;

B[1] = 100;

If A and B are encoded in JSON, what do the strings look like respectively?

1. How to enable a web application originated from domain A to send an **asynchronous** “HTTP POST request” to a different domain, B?
2. When implementing a feature to support file upload in your web application
   1. How can you prevent the uploaded files from being accessed directly via a URL as it is a static file?
   2. What PHP settings do you need to change in order to support uploading of large files?
3. How to prevent cross-side request forgery (CSRF)?
4. How to prevent cross-side scripting attack (XSS)?
5. “Web application X scales better than web application Y.” What does “scale” in this statement typically imply?
6. Combining JavaScript code from multiple files into a single file can improve the performance of a web application. Why?
7. What is URL Rewriting? Name some of its applications.
8. How to reset the session expiration time to X minutes every time a user makes a HTTP request (for any resource, including static files such as images) to the server?
9. Where does PHP stores session data by default?
10. How to implement a feature such that only a particular user, X, can access an image on a server? In other words, any other users (even if they have logged in) who attempt to access the image via the same URL will fail.
11. What are the different approaches to keep data on the client machine (i.e., data that the server does not need to remember)? What are the pros and cons of these approaches?
12. What are the advantages of implementing a web application following a Model-View-Controller (MVC) framework?