**Servlet Intro Quiz**

**1. What is the difference between a web server and a web container?**

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| **Web server** | **Web container** |
| - Serves static content like: images, files, videos - Responses can't be customized bases on input data  - Can't handle behavior  - Can't save data to the server | - Can handle http request and return dynamic content  - Responses can be customized base on input data  - Can handle behavior and save the data to the server |

**2. What is a servlet?**

- A servlet is server-side java code that can handle http requests and return dynamic content.

- Servlets are managed by a servlet engine or container

**3. How do web servers and web containers interact with servlets?**

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| **Web server** | **Web container** |
| **1.** When request come to web server, if the server see the request is for servlet, it will pass the request data to servlet container  3. Send the response back to the client | **2.** The servlet container locate the servlet, create request and response objects and pass them to the servlet and return to the server response stream |

**4. Who creates request objects?**

The web container will create request and response objects and pass them to the servlet and return to the server response stream

**5. What are the states in the servlet lifecycle?**

- **Load** servlet class (Class c = Class.forname())

- **Instatiate** servlet (c.newInstance());

- **init**(): call only once in the servlet's life, before call service()

- **service**(): call for each request

- **destroy**(): call only once

**6. Who calls init and when?**

- Servlet container will call init() when the first servlet created

**7. Which of init, service, and doGet should you override?**

- service() - it is rarely happen

- doGet() - often

**8. In what sense are servlets multi-threaded?**

- When there are multi-request coming at the same time

**9. What are the implications of this for servlet instance variables?**

- Servlet are stateless