

DAC 0521 MET-M Writeup - Java Module 2 Session 12

Standalone Application	Web Application
Executes on top of the platform and its (a) implementation directly inputs the required data from the user (b) implementation directly outputs the processed data to the user.	Executes on top of a web-server and its (a) client side implementation inputs data from and transports it in an HTTP request to the server for processing (b) server side implementation transports the processed data in an HTTP response to the client for output.
Can operate in offline mode	Can operate only in online mode
Can support rich presentation with immediate responses.	Can only support basic presentation with delayed responses.
Can compromise user's security as it has full access to system resources.	Cannot compromise user's security as it has a limited access to client side system resources.
Is separately installed on each system where it is required by the user.	Is deployed once on the web-server and it can be accessed by the user through the preinstalled web-browser.

Java Web Servlet - It is a server side object whose class implements javax.servlet.Servlet interface (defined in enterprise Java) to dynamically generate the response for a particular type of request received by its host server. Java Servlet Container is an environment built within a web-server which enables deployment of a Java web-application on this server and routes the requests received by this server to the servlets implemented by that application using following steps:

- (1) Get the cached servlet object which handles the requested path and if it is unavailable then initialize and cache a new servlet object of a class mapped (in WEB-INF/web.xml or using javax.servlet.http.WebServlet annotation) to the URL pattern matching with the requested path.
- (2) Invoke the service method of the above servlet object passing it the current request and response objects and when this method returns send the content of the current response object to server so that it can be transported back to the requesting client.

