

Lab08	IT618 Enterprise Computing
	PM Jat, DA-IICT, Winter'2017

In this we do practice basic Servlet and JSP programming.

Submissions: For questions 1 to 6 submit by 6PM of this Friday; Question 7, you submit by March 20, 6pm.

1. Life cycle of a servlet object has been discussed in lectures and description is available in lecture slides. Based on description given there; attempt creating a sequence diagram of a request-reply cycle. Assume web container also an object.
2. Write a servlet class **MathTable.java** that responds to following HTTP request

<http://localhost/lab08/Table?number=<x>>

where x can be any integer number from 1 to 100. The servlet should show the table of given number

3. Learn about class **java.util.Properties**. Create a property file **vocab.properties**, and that contains meaning of difficult English words; let us call this as vocab database. Create a simple database that has 20 words and their meaning.

Create a servlet **MeaningServlet.java** that allows finding meaning of a word using following URL pattern.

<http://localhost/vocab/Meaning?word=<word>>

The response of servlet is as following

Word: <the_word>
Meaning: <list-of-multiple-meanings of the word>

4. Create a html page that allows you entering a word; and on click of Go button HTTP post call to **MeaningServlet.java** servlet is sent.
5. Suppose you want to store history of user viewing words from vocab database in a session. Modify **MeaningServlet.java** such that it stores searched words in appropriate scope.
6. Create a JSP **history.jsp** page that shows up all searched words in the client session.
7. Understand the code of **BookStoreDB** (a case study that is expected to be discussed in lectures of this week), and do following-
 - a. List down all use cases.
 - b. For each use-case implementation, create sequence diagram.
 - c. Give pseudo code of the Controller.
 - d. List down all “action” objects.
 - e. Give pseudo code of the functionality that each action object performs