

# **Introduction to Web-Based Java Applications (PRJ301)**

**PRJ301\_HOADNT**  
**hoadnt@fe.edu.vn**

# Prerequisites

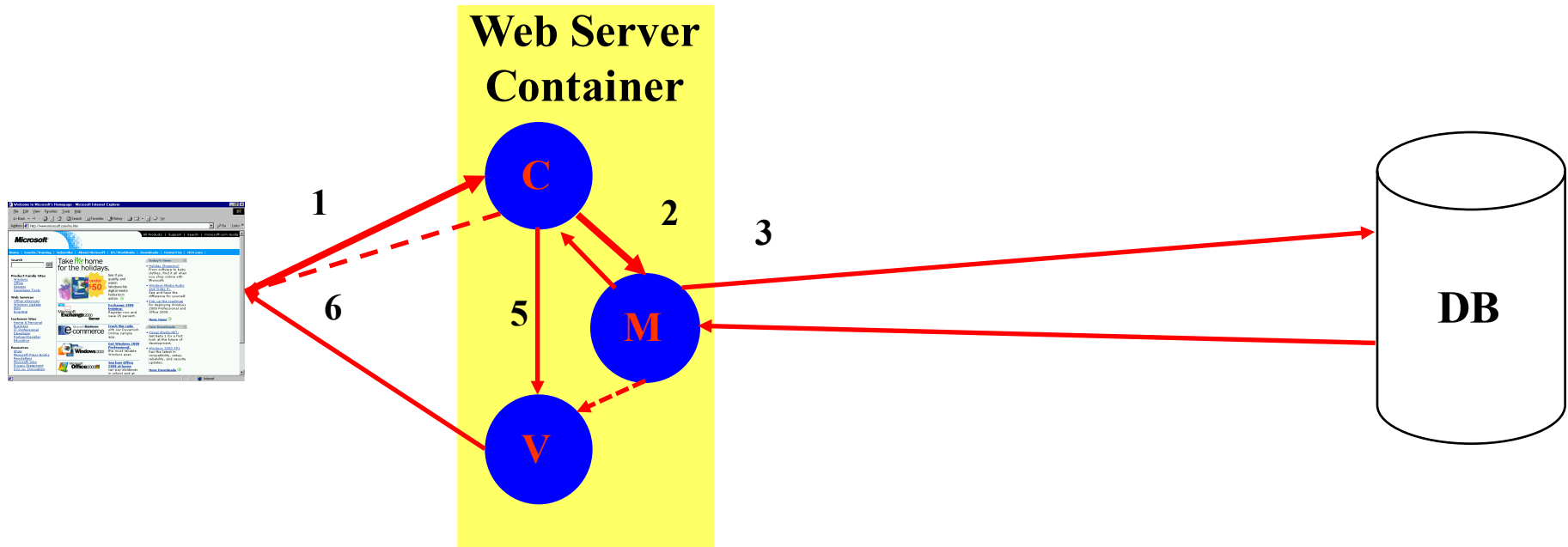
- **Completed:**
  - Should be attended DBI202 (Database Systems)

# Course Objectives

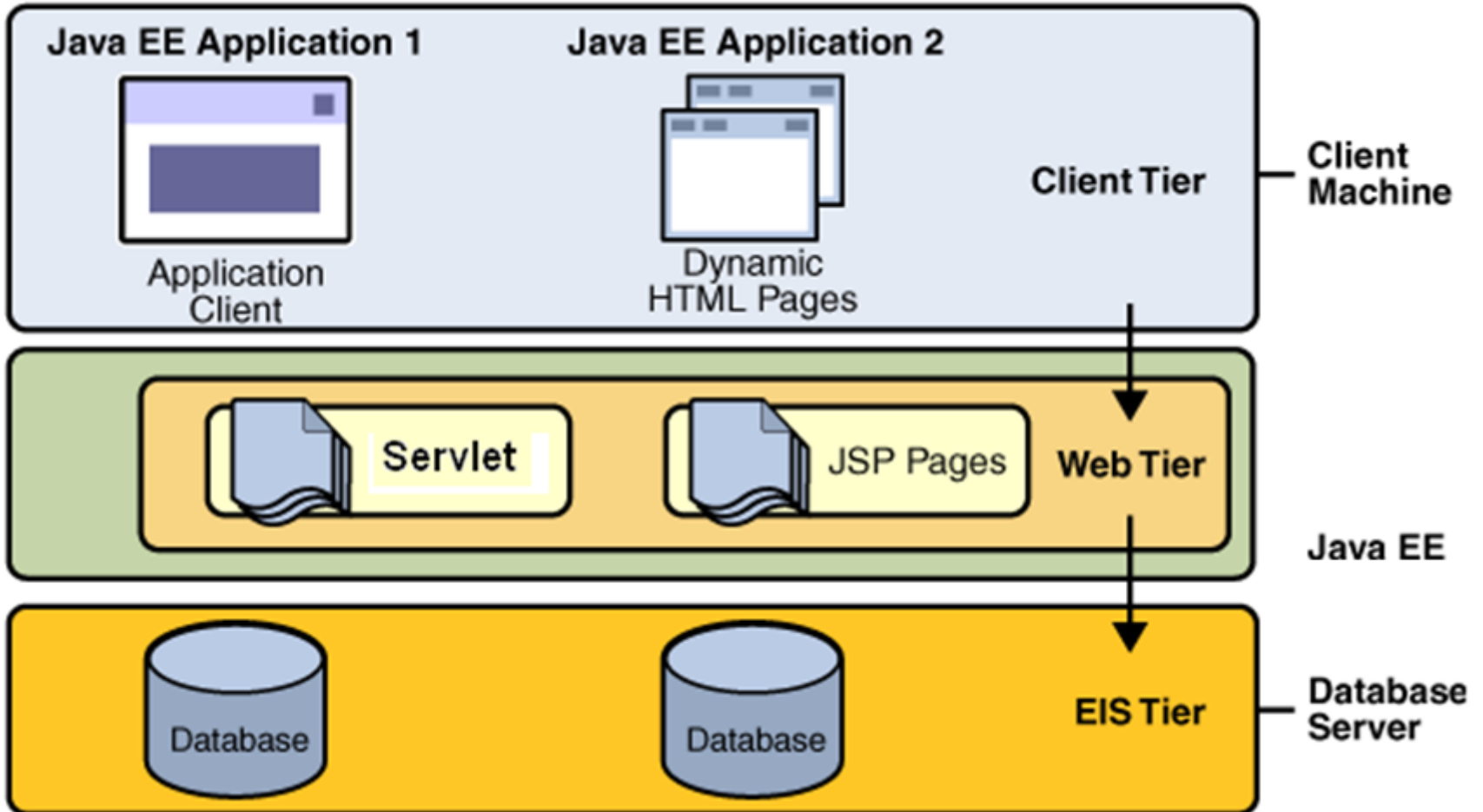
- This course **explores the features** of JavaEE (J2EE)
  - Understand the **core technologies** of **Java web** programming (Servlets, JSP, JavaBeans, Custom Tags, Filtering)
  - Understand and be able to **apply MVC architecture** for the web **combining with framework** (Struts 2)
  - Develop a **Web Application** (Servlets, JSP)
  - J2SE(Java 2 Platform, Standard Edition): desktop application
  - J2ME(Java Platform, Micro Edition): mobile application( not android): Symbian OS
  - J2EE(Java Platform, Enterprise Edition):

# Course Objectives

- The MVC architecture is applied in web application



# Course Objectives



# Course Objectives

- J2EE/JavaEE Technologies

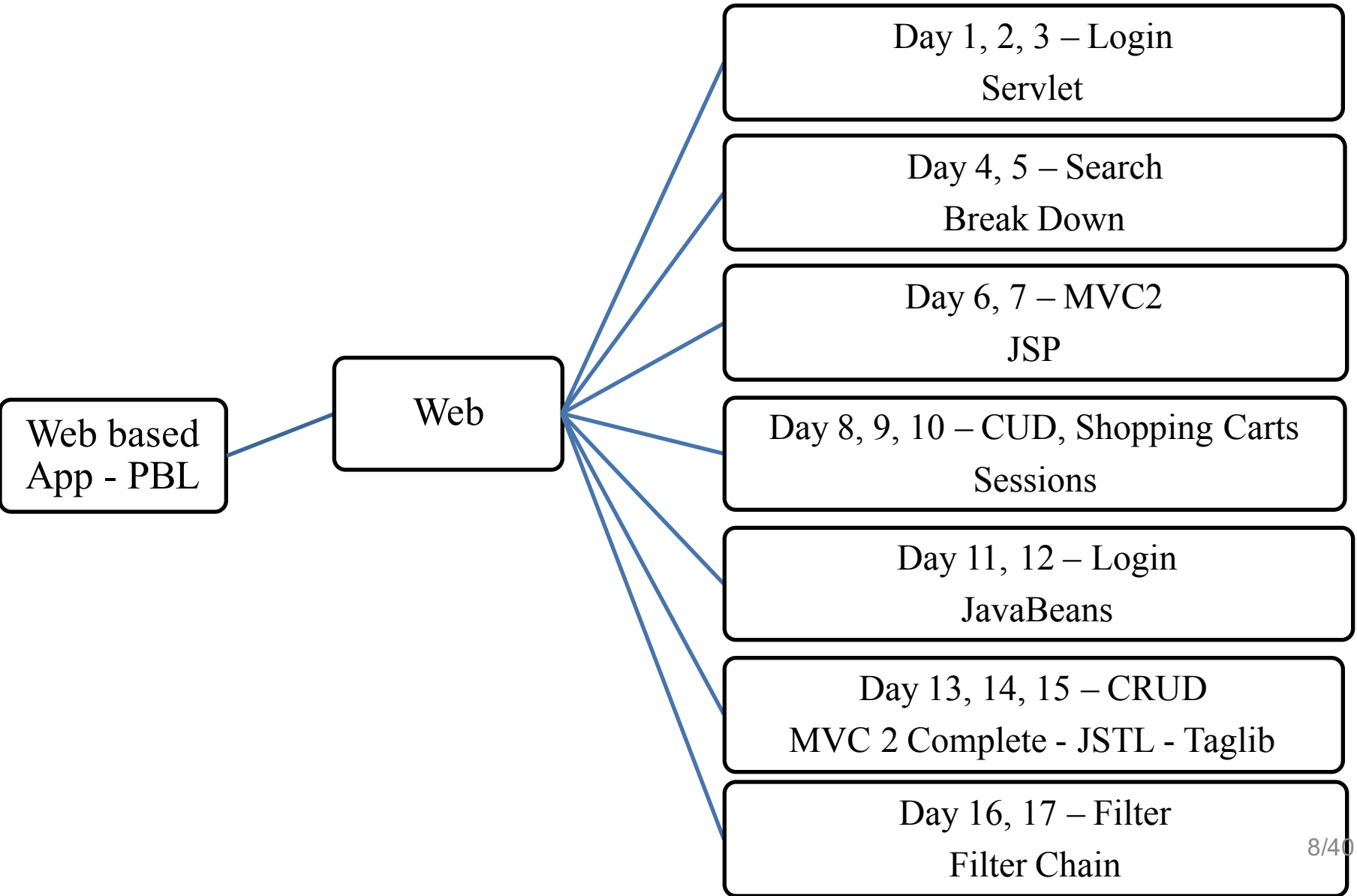


# Course Description

- 1. Servlets Model**
- 2. Web Application & Web Container**
- 3. Java Server Pages (JSP)**
- 4. Session Management**
- 5. JavaBeans**
- 6. JSP Tag Libraries – Custom Tags**
- 7. Filters**

# Course Plan

- See course plan on LMS





# Course Plan

- See course plan on LMS
- Agenda
  1. The Servlet Model
  2. Web Application & Web Container
  3. Java Server Pages (JSP)
  4. Session Management, Session & Listener (self-study)
  5. JavaBeans
  6. JSP Tag Libraries – Custom Tags
  7. Filters
  8. *Practical test*
  9. *Project Presentation*

# Materials/ References

- **Required Textbook**

- Online Text book: Nicholas S. Williams, 2014, Professional Java® for Web Applications, Wrox Press
- <http://library.books24x7.com/toc.aspx?bookid=62587>

- **Required References**

- <http://java.sun.com/docs/books/tutorial/jdbc/>
- <http://struts.apache.org/>

- **References**

- <http://java.sun.com/>

# Learning Environments

- JDK 7 (<http://www.oracle.com/technetwork/java/index.html>)
  - **Recommend:** JDK 7 Update 51, JDK 8 Update 66
- JDK 7 Documentation
- J2EE 1.4/JavaEE5 Core Patterns
- **NetBeans IDE 7.4/8.0.2/8.1/8.2** (<http://www.netbeans.org>)
- **Bundle Tomcat 8.0.x/7.0.x** (<http://tomcat.apache.org/>)
- **DBMS: MS. SQL Server 2005/2008/2014**  
(<http://www.microsoft.com/sqlserver/2008/en/us/default.aspx>)
- **Browser: Internet Explorer  $\geq$  8.x**
- **Driver Type 4 for MS. SQL Server: sqlserver4.jar**

# Course Rules

- **How to conduct**
  - Prepare contents of the next session/ topic at home
  - Following lessons in classrooms
  - Completing chapter assessments in time and Quizzes (via LMS)
- **Communication**
  - Class
  - Interchange by FU-HCM CMS, Forum
  - Discussing actively in your teams and in classrooms
  - Free to question and answer
- **Others**
  - Off phone
  - Use laptops under teacher's instruction
  - No game, no chat in class

# Evaluation Strategy

- Must attend more than 80% of contact hours (if not, not allow to take exam).
- **Evaluating**
  - **02 Progress Test (Q)** 10 %
    - Quiz 1
    - Quiz 2
  - **02 Workshop (Lab)** 10 %
    - Slide: labs
    - 2 workshops
  - **01 Project (Prj)- assignment** 40 %
    - At home
  - **01 Practical Exam (P)** 20 %
    - 1 slot.
  - **Final Exam (FE)** 20 %
- **Total score**
  - 10% (Q) + 10% (Lab) + 40% (Proj) + 20% (Prac) + 20% (FE)
- **Pass**
  - Total score  $\geq 5$  and Final Examination  $\geq 4$  (of 10)
  - **Every components > 0**
- **Retake** only the Final Exam when not passed

# How to study

- This course is **complex knowledge** (however, it's **attractive and exciting**), so you need to keep tight grip on it
  - **Read**
    - On the books to get the general concept
    - Reference, study, collection from anywhere else (internet, your classmates, forum ...)
  - **Attend lectures**
    - Listens, understand, then make your own notes
    - Give your explanation about some topic in lectures
    - Ask questions
    - Give some examples that are not existed in your book
    - Practice all the exercises, demo to make your sense
  - **After classes**
    - Discuss your classmate in directly, on forum
    - Do the lab, assignments to submit via CMS, and do more exercises
    - Build your teams in yourselves to support together in studying

# How to exam/test

- This course is **required** following rules, so you **need to focus and practice** your exercises and homework in try your best everyday
  - **Progress Tests**
    - **No** books
    - **No** conversations
  - **Practical Exam**
    - **No** internets, **No** emails, **No** chats, **No** conversation
    - **Not copy or paste** from available/previous code.
    - All are try it yourselves **manually**
    - ... Nothing else
    - You do only work with **Netbeans IDE** tools and **DBMS**.  
(without configuring svn)
  - **Workshop/Assignment**
    - **Not** copy (copy code, contents, style)
    - Submission of all source code **does not delete anything**

# Academic policy

- Cheating, plagiarism and breach of copyright are serious offenses under this Policy.
  - Cheating
    - Cheating during a test or exam is construed as talking, peeking at another student's paper or any other clandestine method of transmitting information.
    - Cheating during in making lab and assignment as copy source code, copy style, same meaning in progress, ...
  - Plagiarism
    - Plagiarism is using the work of others without citing it; that is, holding the work of others out as your own work.
  - Breach of Copyright
    - If you photocopy a textbook without the copyright holder's permission, you violate copyright law.



# Enjoy the Course

- Be enthusiastic about the material because it is interesting, useful and an important part of your training as a software engineer.
- Our job is to help you learn and enjoy the experience.
- We will do our best but we need your help.
- So, let's all have fun together with Web-Based Java Applications!!!

Hoadnt@fe.edu.vn

Q & A