

Internet Applications

Lab 1

Introduction

- HTML → Describe the general layout or the way in which content is **displayed** in a browser—all the static structure, organization, and content
- HTML → Use “tags” to tell a browser how to display each element of the content.

Introduction cont.


- Java Server Pages (JSP) → Describe a way in which web page content is **generated** and **displayed** in a browser.
- JSP → Consists of HTML tags and Java code **together**
 - **Java Code** : Generate Content
 - **HTML tags** : Display Content

Email List Application

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Address  http://localhost:8080/ch05email/


Join our email list

To join our email list, enter your name and email address below. Then, click on the Submit button.

First name:


Last name:


Email address:

 Done

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Address  http://localhost:8080/ch05email/display_email_entry.jsp?firstName=John&lastNa

Thanks for joining our email list

Here is the information that you entered:

First name:	John
Last name:	Smith
Email address:	jsmith@gmail.com

To enter another email address, click on the Back button in your browser or the Return button shown below.

 Done

HTML Code

```
<html>
  <head>
    <title> Email List application</title>
  </head>
  <body>
    <h1>Join our email list</h1>
    <p>To join our email list, enter your name and
    email address below. <br>
    Then, click on the Submit button.</p>

    <form action="show_email_entry.jsp" method="get">
      <table cellpadding="5" border="0">
        <tr>
          <td align="right">First name:</td>
          <td><input type="text" name="firstName"></td>
        </tr>
        <tr>
          <td align="right">Last name:</td>
          <td><input type="text" name="lastName"></td>
        </tr>
        <tr>
          <td align="right">Email address:</td>
          <td><input type="text" name="emailAddress"></td>
        </tr>
        <tr>
          <td></td>
          <td><br><input type="submit" value="Submit"></td>
        </tr>
      </table>
    </form>
  </body>
</html>
```

Request
Method :
Get or Post

JSP Code

```
<html>
  <head>
    <title>Email List application</title>
  </head>
  <body>
    <%
      String firstName = request.getParameter("firstName");
      firstName = firstName.toUpperCase();
      String lString emailAddress = request.getParameter("emailAddress");
      astName = request.getParameter("lastName");

    %>
    <h1>Thanks for joining our email list</h1>
    <p>Here is the information that you entered:</p>

    <table cellpadding="5" cellspacing="5" border="1">
      <tr>
        <td align="right">First name:</td>
        <td><% out.println( firstName); %></td>
      </tr>
      <tr>
        <td align="right">Last name:</td>
        <td><%= lastName %></td>
      </tr>
      <tr>
        <td align="right">Email address:</td>
        <td><%= emailAddress %></td>
      </tr>
    </table>

    <p>To enter another email address, click on the Back <br>
    button in your browser or the Return button shown <br>
    below.</p>
    <form action="index.htm" method="post">
      <input type="submit" value="Return">
    </form>
  </body>
</html>
```

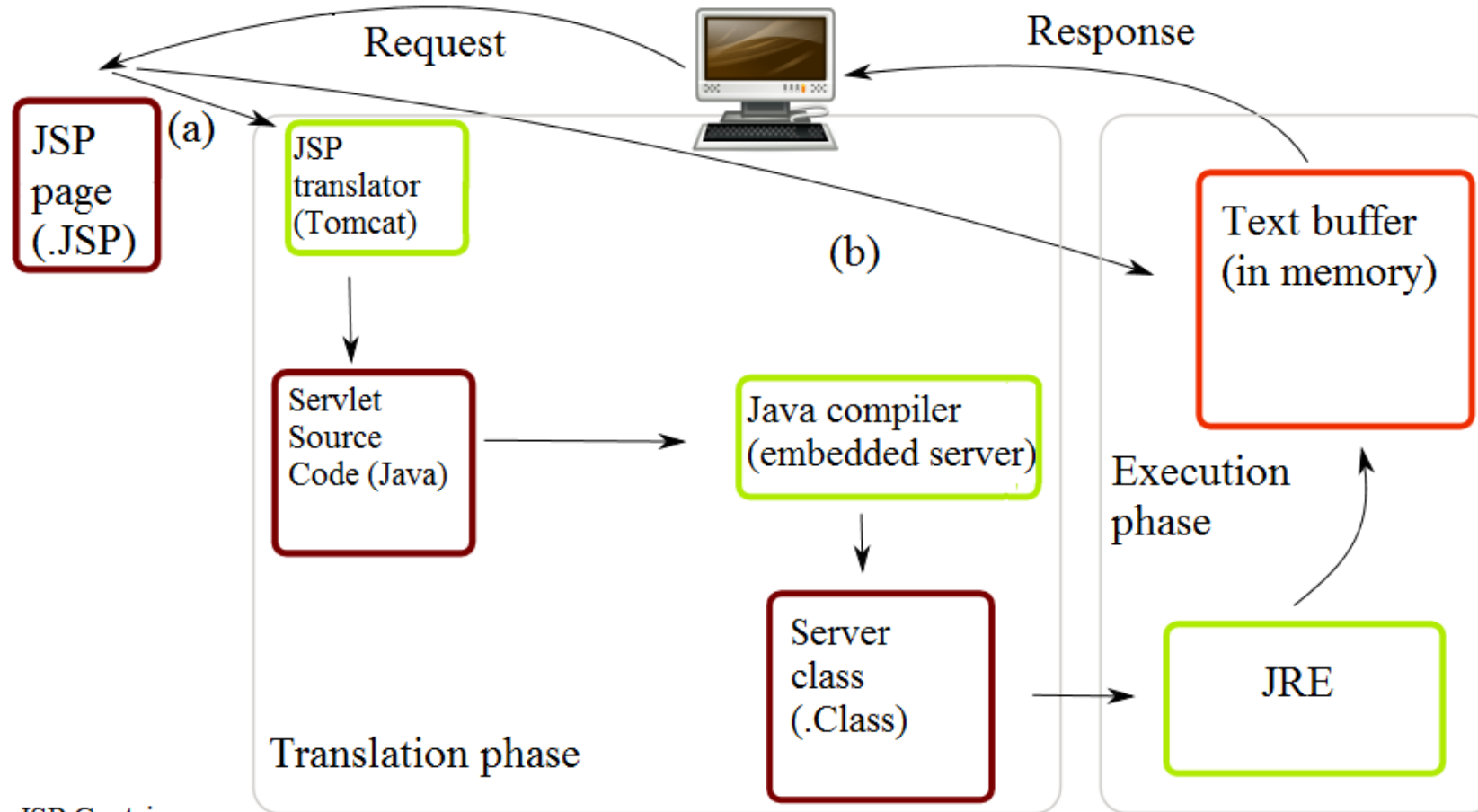
JSP
Scriptlet

JSP
Expressions

Scriptlets vs. Expressions

- JSP Scriptlet
 - Code block (;'s)
 - `<% %>`
- JSP Expression
 - Evaluates to a value
 - Basic type → cast to String
 - Object → call toString()
 - `<%= %>`

JSP Life Cycle: How JSP Understand Java and HTML?



JSP Container

(a) Translation occurs at this point, if JSP has been changed or is new.

(b) If not, translation is skipped.