# Chap 2 – Adding HTML and JavaScript to a Web Application?

* Starting a new Java Web Application
  + In NetBeans, click on ‘File’ in the Menu…select ‘New Project’. You will be given choices, select a ‘Web Application’. [If Web Application is not one of the choices, then you have the wrong version of NetBeans. Please re-install NetBeans for JEE.] Name your Project up-front.
  + You will be given an ‘index.html’ file that will be the starting point of the application. Modify this file to look like the starting page of your Project.
  + Adding a new HTML page
    - Right-click on the project name on the left hand side of NetBeans, select add new HTML page. Next modify this file to include what you want on that page.

* Adding HTML/CSS to a Java Web Application(Front End Design)
  + A few simple HTML tags you can add:
    - Heading tags <H1> My Application </H1>
    - Images: <IMG src = “img1.jpg’ />
    - Hyper-links: <A href = “file2.html”>

Click Here to Login

</A>

* + - Input Tags:
      * Textbox:<input type=“Text” name=“idtb” />
      * Submit:<input type=“submit” value=“Login” />
      * Reset:<input type=“reset” value=“Clear” />
    - There are many other HTML tags, see tutorials at the end of this Chapter.
  + Complete HTML Example:

<!-- ================================================= -->

<!-- -->

<!-- Ronald Enz - CIST 2373, Java Programming 3 -->

<!-- Example of a Simple HTML Web Page -->

<!-- -->

<!-- ================================================= -->

<html>

<head>

<title>XHTML Examples</title>

</head>

<body>

<h1> Ron’s Application </h1>

<img src = “img1.jsp” />

<input type=“Text” name=“idtb” /> <br/>

<input type=“submit” value=“Login” />

<input type=“reset” value=“Clear” />

</body>

</html>

***HTML Tutorial:***

<https://www.w3schools.com/html/default.asp>

***CSS Tutorial:***

<https://www.w3schools.com/css/default.asp>

* Adding Javascript to a Java Web Application(Validation)
  + Javascript can be added to a Web Application to Validate User Input.
    - There are many other uses for Javascript, see tutorials at the end of this Chapter.
  + Complete Javascript Example:

<!-- ================================================= -->

<!-- Ronald Enz - CIST 2373 Java III -->

<!-- Example of a Web Page - Using Javascript -->

<!-- ================================================= -->

<HTML>

<HEAD>

<TITLE>Web Page - Using FORM Tag</TITLE>

<script type="text/javascript">

function validateAge() {

var a;

a=document.DataForm.Age.value;

if(a>=100) {

alert("Age must be below 100");

document.DataForm.Age.value="";

document.DataForm.Age.focus();

}

if(isNaN(a))

alert("Age must be a Number!!");

if(a<0)

alert("Age must be above 0!");

if(a=="")

alert("You must enter a Value for Age!");

}

</script>

</HEAD>

<FORM Name="DataForm" ACTION="http://localhost:8080/myServlet">

<H1>CIS Instructor Information </H1><BR>

<TABLE BORDER=3>

<TR>

<TD>First Name:</TD> <TD><INPUT TYPE="text" name="fname"></TD>

</TR>

<TR>

<TD>Last Name:</TD> <TD><INPUT TYPE="text" name="lname"></TD>

</TR>

<TR>

<TD>Age:</TD>

<TD><input type="text" name="Age" onSubmit="validateAge()" ></TD>

</TR>

<TR>

<TD>Department:</TD> <TD><INPUT TYPE="text" name="dept"></TD>

</TR>

<TR>

<TD><INPUT TYPE="submit" value="Send"></TD>

<TD><INPUT TYPE="reset"></TD>

</TR>

</TABLE>

</FORM>

</HTML>

***HTML/CSS Tutorial:***

<https://www.w3schools.com/js/default.asp>