

Spoken Tutorial Developing Web Applications on Netbeans

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://www.sakshat.ac.in>

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Introduction

- ▶ Introduction to Netbeans at <http://spoken-tutorial.org>



Introduction

- ▶ Introduction to Netbeans at <http://spoken-tutorial.org>
- ▶ Installation and Interface



Introduction

- ▶ Introduction to Netbeans at <http://spoken-tutorial.org>
- ▶ Installation and Interface
- ▶ Creating a New Project



System Setup

► Ubuntu 11.04



System Setup

- ▶ **Ubuntu 11.04**
- ▶ **Netbeans v7.0.1**



Lesson Outline

In this tutorial, we will see

- ▶ **Setting up a Web Application Project**



Lesson Outline

In this tutorial, we will see

- ▶ **Setting up a Web Application Project**
- ▶ **Creating and Editing Web Applications Source Files**



Lesson Outline

In this tutorial, we will see

- ▶ **Setting up a Web Application Project**
- ▶ **Creating and Editing Web Applications Source Files**
 - ▶ **Creating a Java Package and a Java Source File**



Lesson Outline

In this tutorial, we will see

- ▶ **Setting up a Web Application Project**
- ▶ **Creating and Editing Web Applications Source Files**
 - ▶ **Creating a Java Package and a Java Source File**
 - ▶ **Generating Getter and Setter Methods**



Lesson Outline

In this tutorial, we will see

- ▶ **Editing the Default JavaServer Pages File**



Lesson Outline

In this tutorial, we will see

- ▶ Editing the Default JavaServer Pages File
- ▶ **Creating a JavaServer Pages File**



Lesson Outline

In this tutorial, we will see

- ▶ Editing the Default JavaServer Pages File
- ▶ Creating a JavaServer Pages File
- ▶ **Running a Web Application Project**



Requirements

► Netbeans IDE



Requirements

- ▶ **Netbeans IDE**
- ▶ **Java Development Kit (JDK)
version 6**



Requirements

- ▶ Netbeans IDE
- ▶ Java Development Kit (JDK) version 6
- ▶ GlassFish Server Open Source Edition



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<http://www.oracle.com/technetwork/java/javase/downloads/jdk-netbeans-jsp-142931.html>

Lesson- Creating a Simple Web Application

- ▶ **Deploy it to a Server**



Lesson- Creating a Simple Web Application

- ▶ **Deploy it to a Server**
- ▶ **View it's Presentation in a Browser**



Lesson- Creating a Simple Web Application

- ▶ **Deploy it to a Server**
- ▶ **View it's Presentation in a Browser**
- ▶ **Employes JSP Page to Input your Name**



Lesson- Creating a Simple Web Application (cont'd)

▶ JavaBeans Component During HTTP Session



Lesson- Creating a Simple Web Application (cont'd)

- ▶ **JavaBeans Component During HTTP Session**
- ▶ **Retrieves the output on a Second JSP Page**



Refactoring

- ▶ Improving the Structure of the Existing Code



Refactoring

- ▶ Improving the Structure of the Existing Code
- ▶ Without Changing the Observable Behaviour



Refactoring

- ▶ **Change the Structure of the Code Without Changing the Behaviour**

JavaBeans

▶ Reusable Software Components for Java



JavaBeans

- ▶ Reusable Software Components for Java
- ▶ Encapsulate Many Objects into a Single Object



JavaBeans

- ▶ Reusable Software Components for Java
- ▶ Encapsulate Many Objects into a Single Object
- ▶ Passed Around as a Single Bean Object



Assignment!

▶ Three Input Text Fields



Assignment!

- ▶ **Three Input Text Fields**
- ▶ **Use JavaBeans Component**



Assignment!

- ▶ **Three Input Text Fields**
- ▶ **Use JavaBeans Component**
- ▶ **View it's Presentation in the Browser**



Assignment!

- ▶ Three Input Text Fields
- ▶ Use JavaBeans Component
- ▶ View it's Presentation in the Browser
- ▶ Retrieve the Output on a Second JSP Page



Acknowledgement

- ▶ Spoken Tutorial Project is a part of Talk to a Teacher Project



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- ▶ **Supported by the National Mission on Education through ICT, MHRD, Government of India**



Acknowledgement

- ▶ More information: <http://spoken-tutorial.org/NMEICT-Intro>



About the Spoken Tutorial Project

- ▶ Video on http://spoken-tutorial.org/What_is_a_Spoken_Tutorial summarizes the Spoken Tutorial Project



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summarizes the Spoken Tutorial Project
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About the Spoken Tutorial Project

- ▶ We also give certificates for those who pass an online test



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Thank You

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