

JSF FORMS AND MANAGED BEANS



Topics

- What are Managed Beans?
- Requirements for Managed Beans
- Creating a Managed Bean
- JSF Expression Language
- Setting Managed Bean Property from JSF Page
- Reading Managed Bean Property from JSF Page

What are Managed Beans?

- A managed bean is regular Java class
- Commonly used to **hold form data**
- Can also contain business logic
- Created and managed by JSF ... hence “managed bean” :-)

**Warning: Not to be confused with
Enterprise Java Beans (EJB)**

What are Managed Beans?

student_form.xhtml

First name:

Last name:

Managed
Bean

student_confirmation.xhtml

The student is confirmed: John Doe

Requirements for Managed Beans

- Must follow these rules:
 - Public no-arg constructor
 - Expose properties via public getter / setter methods
- JSF 2 added support for annotation: **@ManagedBean**

Creating a Managed Bean

- Coding Session

JSF Expression Language

- The JSF expression language is used to
 - Access properties of a managed bean
 - Other logic functions are available too
- Basic syntax

`#{ <beanName>.<property> }`

Setting Managed Bean Property from JSF Page

- To access a bean property from a JSF form:

```
<h:inputText value="#{student.firstName}" />
```

When form is submitted,
JSF will call:
student.setFirstName(...)

Getting Managed Bean Property from JSF Page

- To get a bean property from a JSF page:

Student's name is: **`#{student.firstName}`**

When page is processed,
JSF will call: **`student.getFirstName()`**

Pulling It All Together

student_form.xhtml

First name:

Last name:

Managed
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The student is confirmed: John Doe

Summary

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