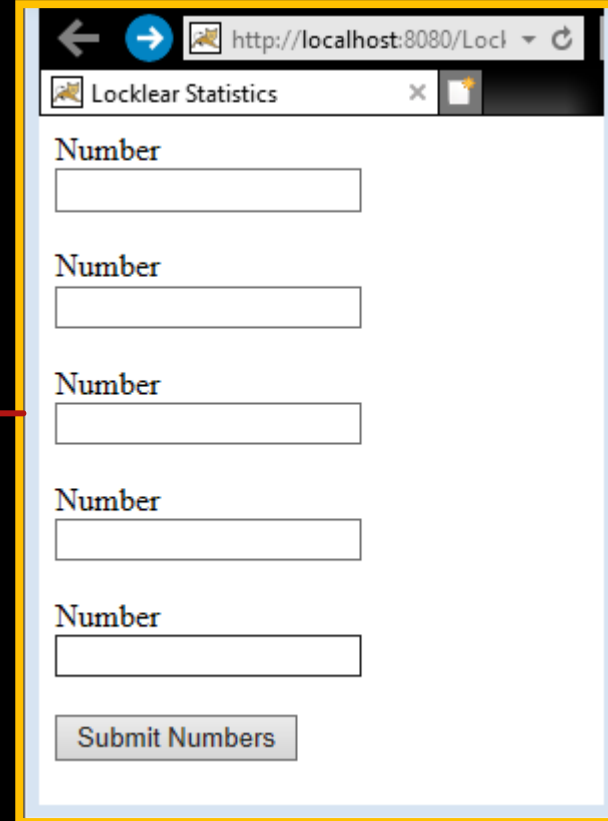
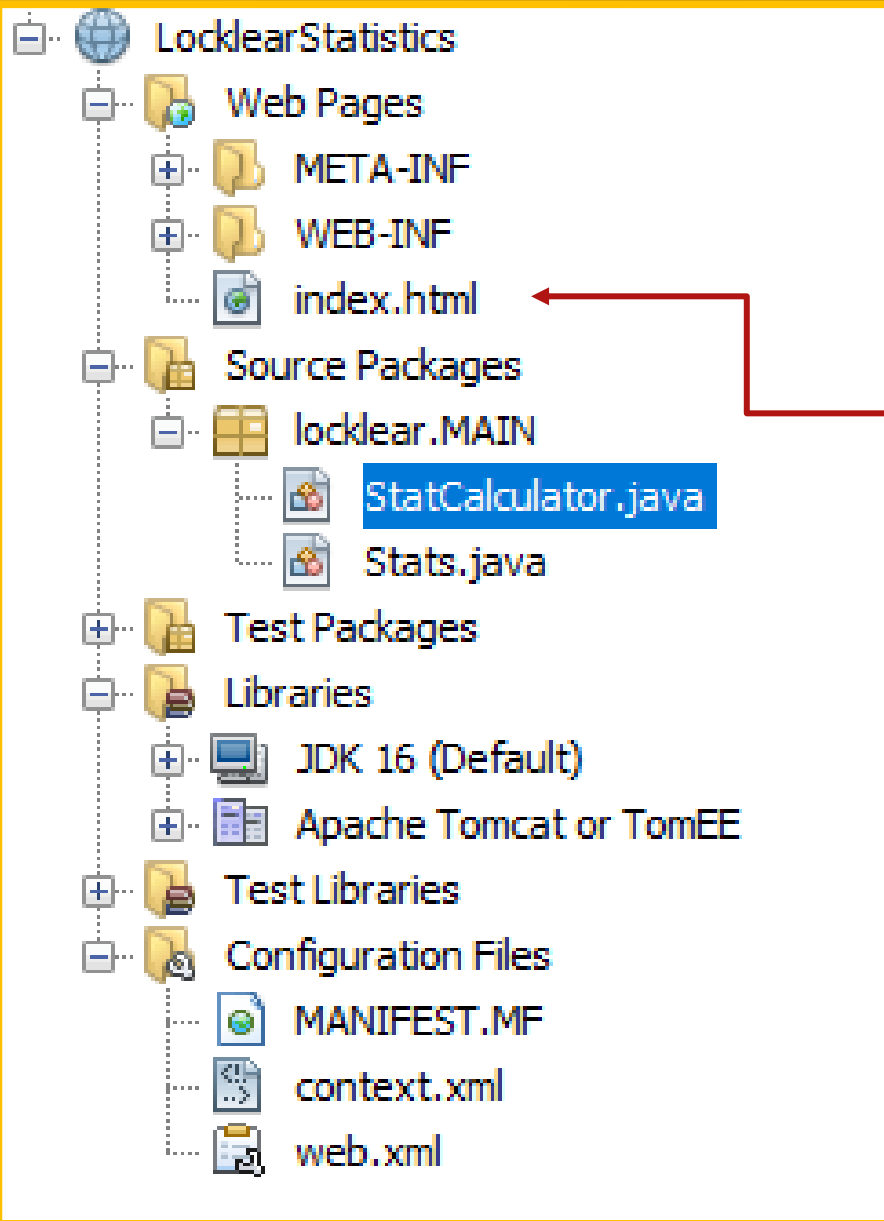


# Program Structure

2



# StatCalculator Model

3

- ▶ A **StatCalculator** is a statistical information construct.

## StatCalculator

-int[ ] values

StatCalculator(int[ ] values)

+min(): int

+max(): int

+sum(): int

+avg(): double

+showStats(): String

# StatCalculator Model

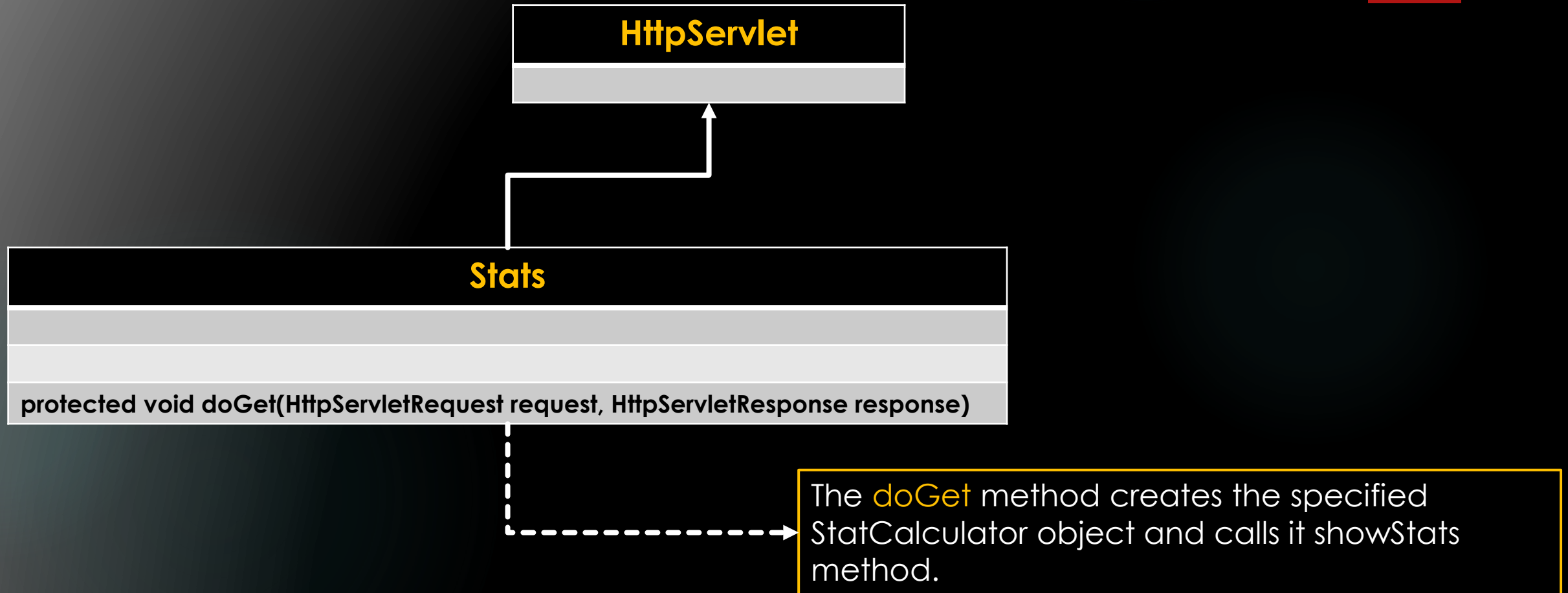
4

- ▶ A **StatCalculator** is a statistical information construct and has the following behavior.

StatCalculator (Method Specifications)
min()...returns the minimum values from the <b>values</b> array
max()...returns the maximum values from the <b>values</b> array
avg()...returns the mean of the values in the <b>values</b> array
sum()...returns the sum of the values in the <b>values</b> array
showStats()...returns a String representation of the statistical values in the <b>values</b> array as shown on Slide 7

# Stats Servlet

5



# Object Creation

6

- ▶ Create the following **StatCalculator** object within the **Stats** servlet by submitting the form on the **index.html** page .

Identifier	Value 1	Value 2	Value 3	Value 4	Value 5
S	5	3	1	4	2

Number  
5

Number  
3

Number  
1

Number  
4

Number  
2

Submit Numbers

# Application Webpage Output

7

The diagram illustrates the process of submitting data to a web application. On the left, a browser window shows a form titled 'Locklear Statistics' with five input fields labeled 'Number' containing the values 5, 3, 1, 4, and 2. A 'Submit Numbers' button is at the bottom. A yellow arrow points from this form to a second browser window on the right, which displays the results of the submission.

**Input Form (Left):**

- Number: 5
- Number: 3
- Number: 1
- Number: 4
- Number: 2
- Submit Numbers

**Output Page (Right):**

Statistics

- Numbers Entered: 5 3 1 4 2**
- Sorted Numbers: 1 2 3 4 5**
- Sum of Numbers: 15**
- Minimum Value: 1**
- Maximum Value: 5**