

Exercise 41: Client and Server Side Components and Misc.

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Objectives

Introduction to Web Components, React (client side components) and Java Server Faces, JSF (server side components). Quick check of WebSockets (lecture 42).

Resources

Code samples from I41, see lectures.

Whatwg HTML Standard [custom elements](#)

[Custom elements Google](#)

[React quick start](#)

[React tutorial](#)

[JSF tutorial](#)

[Another JSF Tutorial](#)

Many [code samples for Java Server Pages](#)

[Websockets](#)

Web components

Download **I41.zip**. Run and inspect I41/webcomp/...

1. ...shadowroot
2. ...custom
3. ...template
4. ...slots

React

1. Run /I41/react, see README how..
2. Inspect components!
3. Try to build (package it) and then run.
4. Download **react_comps.zip**.
5. The task is to create a table component, like below (borders, styling optional). See /comps/Table.js

1	olle
2	fia
3	pelle

6. See // TODO what to do.

Server Side Components

This will use Java Server Faces as the server side GUI component framework (the (only?) other is [ASP.NET](#)).

1. Try to run l41/jee_component. Use GlassFish 4.1. Try to grasp design and flow.
2. Download **jee_comp_todo.zip**. It's the todo note application again, see below.
3. Install bootstrap, see /resources
4. Should be possible to run (missing most of view)
5. See // TODO, what to do.

Todo Notes

List

[Add](#)

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1	Äta gröt	Wed Feb 01 07:52:52 CET 2017	false	Edit	Delete
2	Rensa sallad	Wed Feb 01 07:52:52 CET 2017	false	Edit	Delete
3	Jaga älg	Wed Feb 01 07:52:52 CET 2017	false	Edit	Delete
4	Sköta katt	Wed Feb 01 07:52:52 CET 2017	false	Edit	Delete
5	Skjuta katt	Wed Feb 01 07:52:52 CET 2017	false	Edit	Delete

Todo Notes

New

[List](#)

Id	Generated
Text	<input type="text"/>

Cancel

Save

Common footer from template

Todo Notes

Detail

[List](#)

Id	1
Text	<input type="text"/>
Date time	
Done	false

Cancel

Delete

Save

Common footer from template

WebSockets

Download **l42.zip**

1. Run `/jee_websocket` and `/node_websocket`

Examination

Contact teaching assistant for a demo.