WEB 2

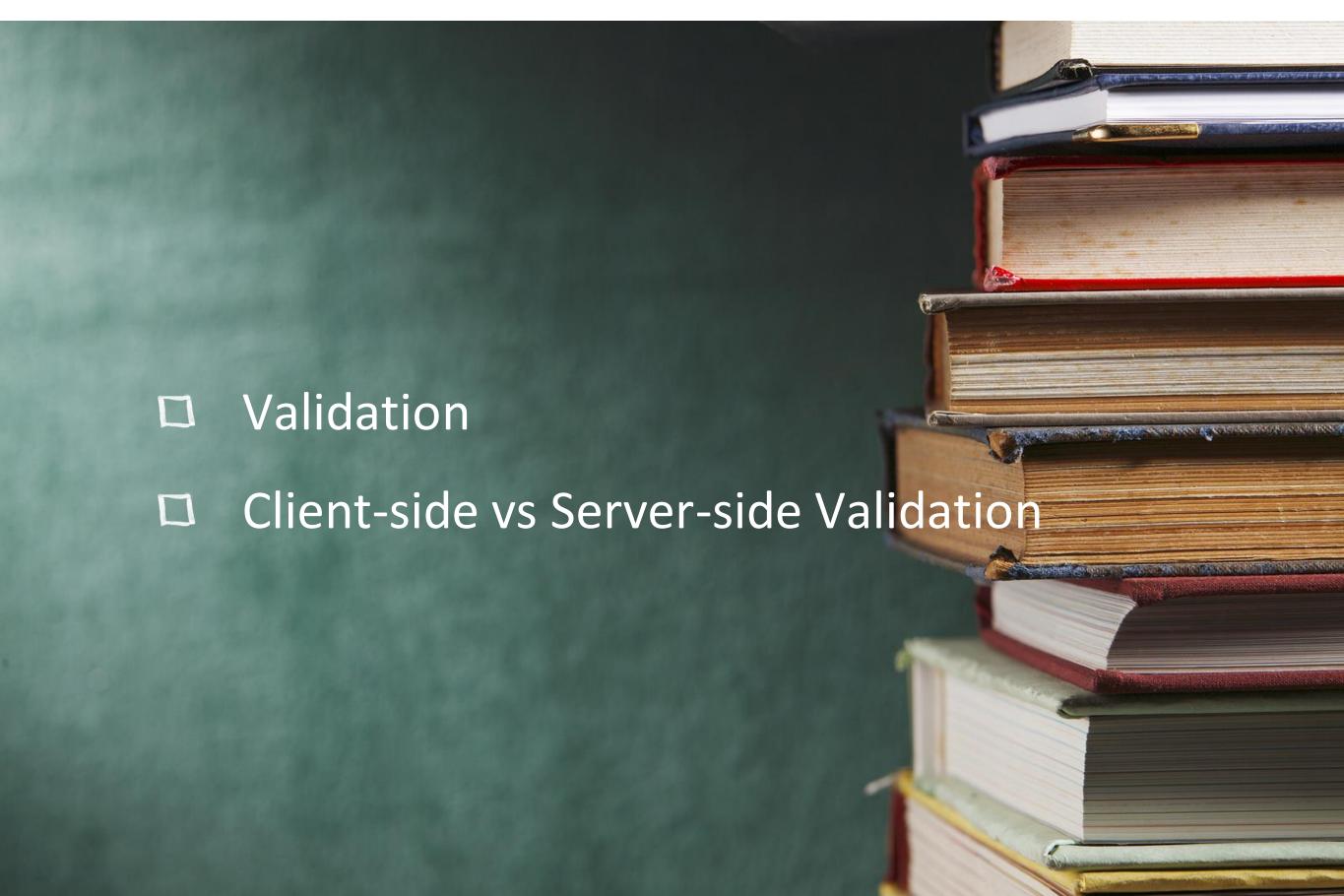
Les 7: Validation

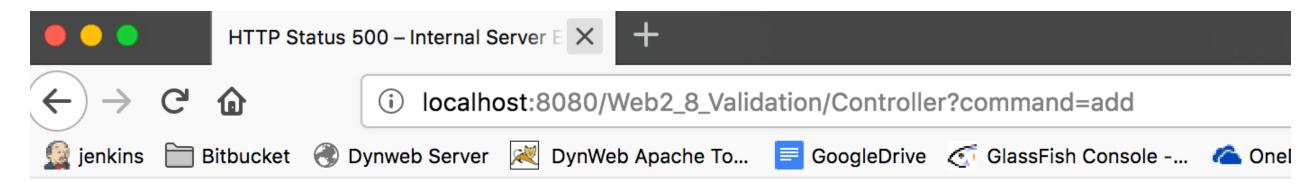
ON THE EXAM



- ☑ When we add validation to a form: what do you have to add in Model, what in Controller and what in View?
- Why is client-side validation not enough?
- Why is server-side validation not enough?
- **I**

AGENDA





HTTP Status 500 — Internal Server Error

Type Exception Report

Message Vul een naam in.

Description The server encountered an unexpected condition that prevented it from fulfilling the request.

Exception

Note The full stack trace of the root cause is available in the server logs.

Apache Tomcat/9.0.4



Home Voeg Toe Zoek Overzicht

- Vul een soort in.
- Vul een nummer in voor voedsel.

Voeg je huisdier toe

Naam: Max

Soort:

Aantal keer eten per dag:

Voeg dier toe

Alle velden zijn verplicht.

VALIDATION

IMPLEMENTATION

- Model
 - add exceptions at the right places
- Controller
 - catch exceptions
 - give the error information to the view
- View
 - show the error information

DO NOT

```
try{
    if(naam.isEmpty() && hoeveelheid.isEmpty()){
        //Beide velden leeg
        return "formulier.jsp";
    }else if(Double.parseDouble(hoeveelheid) < 0){</pre>
        //Hoeveelheid negatief
        return "formulier.jsp";
    }else if(naam.isEmpty() && !hoeveelheid.isEmpty()){
        //Naam is leeg
        return "formulier.jsp";
    }else if(!naam.isEmpty() && hoeveelheid.isEmpty()){
        //Hoeveelheid is leeg
    }else{
        //Alles goed
        return "berekening.jsp";
}catch(NumberFormatException e){
    return "formulier.jsp";
}
try {
    request.setAttribute("berekening",
        organisatie.berekenKost(naam, Double.parseDouble(hoeveelheid)));
    return "berekening.jsp";
} catch (DomainException e) {
    return "formulier.jsp";
} catch (NumberFormatException e) {
    return "formulier.jsp";
}
```

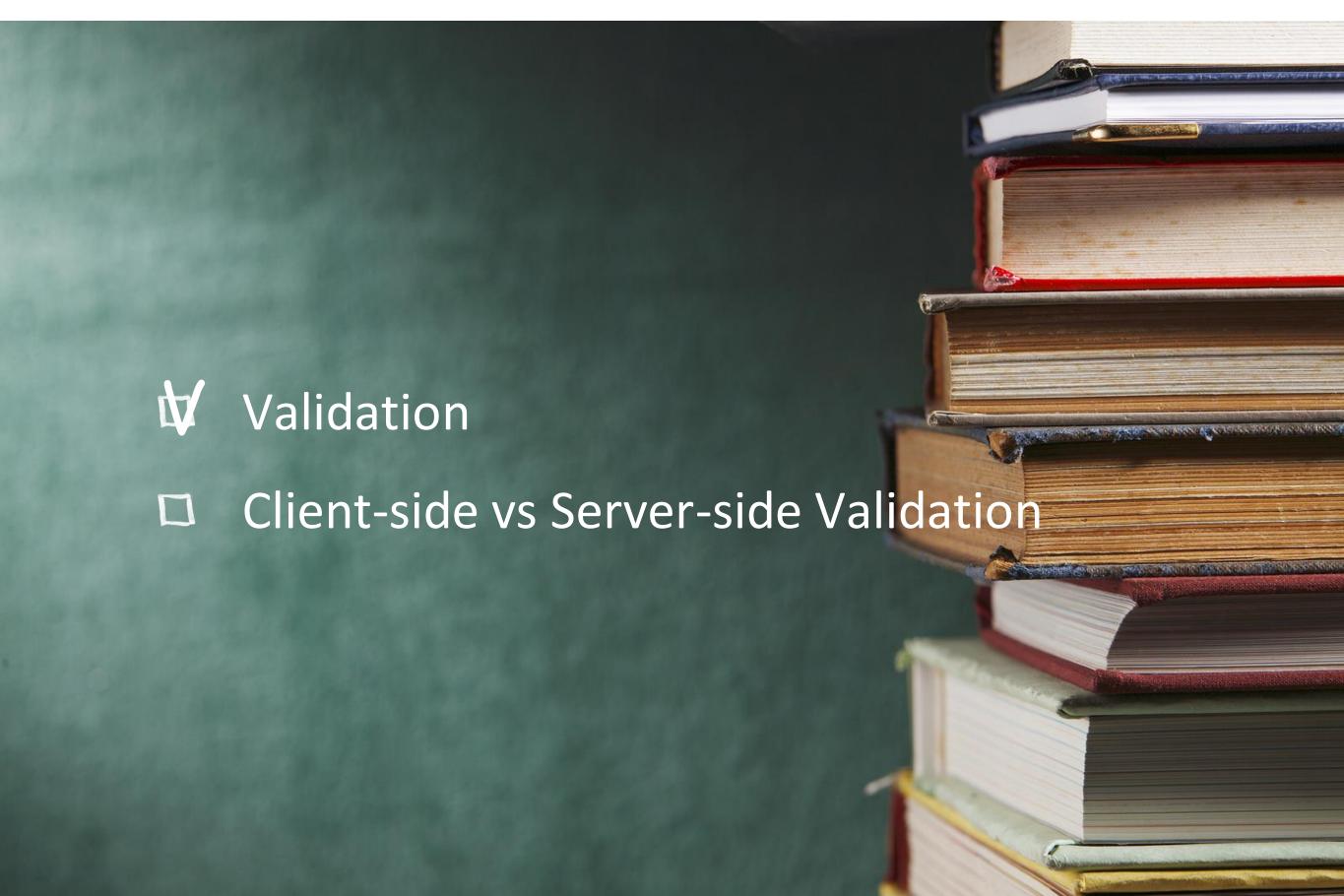
DO

Catch Specific Exceptions

```
String hoeveelheid = request.getParameter("hoeveelheid");

try {
    organisatie.berekenKost(naam, Double.parseDouble(hoeveelheid));
} catch (NumberFormatException|DomainException e) {
    ...
}
```

AGENDA



CLIENT-SIDE VALIDATION

HTML5

Email:

123456

Submit

Please include an '@' in the email address. '123456' is missing an '@'.

- don't trust the user: must always be accompanied by server-side validation
- read more http://www.sitepoint.com/client-side-form-validation-html5/

HOW TO HACK CLIENT SIDE VALIDATION

- Open "Inspector"
- Go to element "form"
- Add attribute "novalidate"
- Fill out form and submit

CLIENT-SIDE & SERVER-SIDE

- Only client-side validation is not enough
- Server-side validation: validate "business rules"
- Validate the same rules client-side & serverside? Yes! Why?

DEMO

https://github.com/UCLLWeb2-2122/Les7_ServerSideValidation

MVC Quiz

Tonen foutboodschap

Is een veld ingevuld?

Ligt een waarde tussen een bepaald bereik?

Oproepen domein

Exceptions opvangen

Valideer e-mailadres

MODEL	VIEW	CONTROLLER

AGENDA

