



## Assignment 6 (NF)

*Due: Mon 01.12.2014, 16:00h (2 Weeks)*

### Task 1: Form Validation with HTML5 and JavaScript

For this assignment, you are requested to create a form, which is validated with HTML and JavaScript. If the validation fails, the user is informed about the problems and asked to correct them accordingly.

Your submission should meet the following requirements:

- Create a form with the following elements:
  - A text input field, into which the user enters a chosen user name.  
Validation criteria:
    - The username needs to have at least 6 characters
    - The username must only consist of upper or lower case letters, digits and underscores.
    - This field is required.
  - An email input field, into which the user enters an email address.  
Validation criteria:
    - This field is required.
  - A URL input field, into which the user enters a URL to a webpage.  
Validation criteria:
    - This field is optional.
  - A text field, into which the user enters his/her date of birth.  
Validation criteria:
    - The date should have the format DD.MM.YYYY (e.g. 19.11.2014)
    - This field is required.
  - A submit button, to submit the form  
Notes:
    - The form does not have to be submitted to a script or a server.
    - Instead, the validation happens once this button is pressed.
- While the user is filling out the fields, a JavaScript event listener checks, whether the input matches the requested criteria. If it does, a small checkmark is displayed next to the input field to let the user know that the input has been accepted.
- The checkmark should disappear, as soon as the input becomes invalid according to the validation criteria.
- Add placeholders for each input field.
- Add error messages to the username, email and date of birth input fields. Use JavaScript to achieve this. Customize the error messages in a way that the user knows how to resolve the problems, e.g.
  - “The username must only consist of upper and lower case letters, digits and \_.”
  - “The format of the date of birth must be DD.MM.YYYY.”



- “Please enter a valid email address.”
- There does not have to be a custom error message for the URL field.
- Try to find the adequate input types for the form elements. Make sure your solution works with Firefox or Chrome.
- **Bonus (optional):**
  - Make sure test@test is not accepted as valid email address
  - Make sure 44.44.4444 is not accepted as valid date of birth

**Notes:**

- Please make sure to comment your code to facilitate fast correction of your submission.
- Incomplete submissions are welcome. In that case, please make sure to include a Readme.txt file in which you tell us, what parts are not working.
- **Don't forget about “the challenge”: if more than 75 people submit this assignment (partial solutions over 50% count), there will be a mock exam in January.**