

# CSE216 – Programming Abstractions

## Recitation 10

### Objectives:

- Looking at some JavaScript programs
- Develop a form validator using JavaScript

### Some JavaScript Programs

Go through each of the JavaScript programs at the following location:

<http://employees.oneonta.edu/higgindm/javascript/scriptexamples.html>

### Abstract submission form

(5 pts)

Create a HTML form that accepts abstract for submission to a particular conference. The form has fields and associated conditions as shown in the following table. Create custom JavaScript functions which will check each field in the form to check whether it satisfies a particular condition. On submission of a form, if the fields do not satisfy a particular condition, an alert is shown to the user along with highlighting the particular fields in the form. In case the form is correctly filled, on submission the details of submission are shown in the same page at the bottom of the form.

Form field	Type	Value	Restrictions
Title of the form	Display text	Abstract Submission Form	Show in bold
Abstract title	Input text	To be entered by user. E.g. <b>A framework for the comparison of mobile patient monitoring systems</b>	1. Should contain only alphanumeric characters and space 2. Maximum length = 70 characters
Authors names	Input text	To be entered by user E.g. <b>Pravin Pawar, Val Jones, Bert-Jan F Van Beijnum, Hermie Hermens</b>	1. Should contain only alphabetical characters, space and 3 special characters '-',' 2. Maximum number of authors is 5, where author names are separated by comma.
Corresponding Author's Affiliation	Input text	To be entered by user. E.g. <b>Department of Telemedicine, University of Twente, Enschede, The Netherlands.</b>	1. Should contain only alphabetical characters, 2 special characters '-',' and space. 2. Maximum length = 100 characters.
Corresponding author's email	Input text	To be entered by user. E.g. <b>pravin.pawar@utwente.nl</b>	Should be a valid email address.

Corresponding author's phone number	Input text	To be entered by the user. E.g. <b>0534893265</b>	1. Should contain only digits. 2. Total number of digits should not be more than 14.
Abstract	Input text	To be entered by the user. E.g. <b>In this paper we propose a generic architecture, associated terminology and a classificatory framework for comparing mobile patient monitoring systems. We then apply this comparison framework to classify six mobile patient monitoring systems selected according to the following criteria: use of diverse mobile communication techniques, evidence of practical trials and availability of sufficient published scientific information.</b>	1. May contain alphanumeric as well as all special characters. 2. The maximum number of words should be 200.
Key words	Input text	To be entered by the user. E.g. <b>patient monitoring, mobile computing, body area network</b>	1. Should contain only alphabetical characters, space and 3 special characters '-', ',' and space. 2. Individual keywords must be separated by comma. 3. At most 5 key words are allowed. 4. The total length of key words should not exceed 100.
Submit button	Input button	Submit	1. On clicking the Submit button, your JavaScript should get data from all the form fields and check with respect to above conditions. In case of any problems with the fields, alerts should be shown that contains list of all possible problems. 2. The corresponding fields with error values should be highlighted. 3. In case there are no errors, below the form the entire contents of the abstract should be displayed in a tabular format.
Clear button	Clear button	Clear	1. On clicking this button, all the data in the form should be cleared.

Hint: How to display results in the same page using JavaScript:

<https://www.quora.com/How-do-I-display-results-on-the-same-page-in-JavaScript>

JavaScript regular expressions for form validation:

[https://www.w3schools.com/js/js\\_regexp.asp](https://www.w3schools.com/js/js_regexp.asp)

[http://www.tutorialspark.com/javascript/JavaScript\\_Regular\\_Expression\\_Form\\_Validation.php](http://www.tutorialspark.com/javascript/JavaScript_Regular_Expression_Form_Validation.php)

<http://form.guide/snippets/javascript-form-validation-using-regular-expression.html>

UI may look like the following, but could be better:

### Abstraction Submission Form

Abstract title:	<input type="text"/>
Authors' names:	<input type="text"/>
Corresponding author's affiliation:	<input type="text"/>
Corresponding author's email:	<input type="text"/>
Corresponding author's phone number:	<input type="text"/>
Abstract:	<input type="text"/>
Key words:	<input type="text"/>
<input type="button" value="submit"/>	
<input type="button" value="clear"/>	

### Submission

Name your html file as formsubmission.html. Zip the HTML file and upload on the blackboard.

**Submission deadline: Monday 25 November 11:59 PM**

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