

Web technologies

Exercise Set 3

A helpful introduction to implementing the interactions with DOM elements and events is available at https://www.w3schools.com/js/js_htmlDOM.asp in chapter *JS HTML DOM*.

1. Create a form with the following fields: account number, PESEL number, birth date, and e-mail. Implement relevant mechanisms for validation of the fields, which should be triggered by leaving the field after an edit or by an attempt to submit the form. The implementation should conform to the *unobtrusive JavaScript* principles and use regular expressions.

[3p]

2. Create a form with the following elements:

- Select field with label **Make:** and name **make** (like e.g. BMW)
- Select field with label **Model:** and name **model** (like e.g. X7)
- Text field with label **New item:** and name **new**
- Radio buttons with label **I want to add:**, name **kind**, and respective values **make** and **model**
- Button with label **Add item i nazwie add**

Implement the following logic in the form:

- Each item on the make list has an associated list of models. After selecting an item from the make list, the model field should be populated with the relevant items.
- After entering a text in the **new** field and clicking the **add** button, a new item should be appended to the list indicated by the setting of the **kind** widget.

The logic should be implemented in JavaScript by manipulating the DOM tree. Additionally, after opening the page, the form should contain two makes (e.g. Ford and Fiat) and two models of each make; this too should be implemented by a script adding nodes to the DOM tree instead of a static HTML code.

[4p]

3. Implement a 'Please wait' animated effect similar to the one at <https://flevix.com/box-loading-icon-gif/> using `setTimeout` or `setInterval`.

[3p]

Paweł Rajba