

Web Technologies I

Practical class: JS II

Find the slides @ E-studijas (JavaScript section)

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▼ JavaScript

JavaScript scripting language - rest of the course



JavaScript language



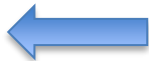
Code Examples - Javascript



4th Practical Class - JavaScript



5th Practical Class JavaScript



This description and upload of the task solution



Working with DOM

Resources

- Slides (e-studijas):
 - JavaScript language
 - Working with DOM
 - Form validation
- W3Schools Array (check *filter* and *sort* array methods)-
https://www.w3schools.com/jsref/jsref_obj_array.asp
- JavaScript (MDN) - <https://developer.mozilla.org/en-US/docs/Web/JavaScript>
- W3Schools - <https://www.w3schools.com/js/>
- Code examples
 - links in lecture slides

Tools

- Visual Studio Code / NetBeans / Notepad++
- Browser (Chrome, Firefox, ...)
- Developer tools
 - Chrome: Ctrl+Shift+I
 - Firefox: F12

Task

- Create an interactive image gallery. The gallery should allow users to add images via a form, validate the input, and interact with the gallery by filtering images based on categories and sorting them by various criteria.
- Use the provided `index.html` and `script.js` files as a basis. Change them both if necessary.
- `index.html` already contains a form to add new images to the gallery with fields: Image URL, Image Name, Category
- `script.js` contains a mock-up of functions that can be implemented to solve the task. You can use the code mock-up or modify `script.js` as you wish.

Task cont.

- Form Validation:
 - Implement client-side form validation:
 - Ensure the Image URL points to an image file (e.g., ends with .jpg, .png, .gif, or .svg).
 - Ensure the Image Name is not empty.
 - Ensure the Category is selected.
 - Display error messages under each field if validation fails.
- Gallery Display:
 - Once the form is successfully submitted, the image should be added to a dynamic gallery below the form.
 - Each image in the gallery should display:
 - The image itself.
 - The image's name.
 - The category of the image.
 - The date and time when the image was added.
 - Each image should have a Remove button to delete the image from the gallery.

Task cont. II

- Filtering:
 - Add buttons above the gallery to filter images by their category (e.g., All, Nature, City, Abstract).
 - When a filter button is clicked, the gallery should only display images that belong to that category.
 - Clicking the All button should display all images regardless of category.
- Sorting: Add a dropdown to allow users to sort the images by:
 - Name (A-Z): Sort images alphabetically by their name in ascending order.
 - Name (Z-A): Sort images alphabetically by their name in descending order.
 - Date (Ascending): Sort images by the date they were added, from the earliest to the latest.
 - Date (Descending): Sort images by the date they were added, from the latest to the earliest.