

Lab 7: JavaScript Events and DOM-07

In this lab assignment you will work with JavaScript events and the Document Object Model (DOM).

1. Create a new project in NetBeans called DataFormJS. Download the starter project from the LMS and copy/paste it into your new project.
2. Create a new repository on GitHub, link it to your NetBeans project, and perform an initial commit and push.
3. Open the starter project HTML file (chapter09-project01.html) and review how it looks. This starter project contains the HTML and stylesheet that represents your data entry form.
4. You will notice that some of the form elements have the CSS class “highlightable” specified in their class attribute. Add listeners to the focus and blur events of all elements that have this “highlightable” class.
5. In your event handlers for these two events, simply toggle the class highlight (which is in the provided CSS file). This will change the styling of the current form element. Be sure to set up these listeners after the page has loaded.
6. You will notice that some of the form elements have the CSS class “required” specified in their class attribute. We will not submit the form if these elements are empty.
7. Add an event handler for the submit event of the form. In this handler, if any of the required form elements are empty, add the CSS class “error” to the empty elements. As well, cancel the submission of the form (hint: use the preventDefault() method).
8. Add the appropriate handler for these “required” controls that will remove the CSS class error that have changed content.

Final Page Details

The image displays three sequential screenshots of a web browser showing a form titled "Edit Art Work Details". The browser's address bar indicates the URL "127.0.0.1:55092/Chapter09-project01.html".

First Screenshot: The form contains several input fields. Red lines connect labels to specific fields:

- highlightable fields:** Points to the "Title", "Description", "Genre", "Subject", "Medium", "Year", and "Museum" fields.
- required fields:** Points to the "Title", "Description", and "Year" fields.

Second Screenshot: The "Description" field is highlighted with a yellow background. A label points to this field:

- Add handlers for the focus and blur events. These handlers will toggle (add or remove) the class highlight**

Third Screenshot: The form shows validation errors. The "Title", "Description", and "Year" fields are highlighted in red, each with a red error icon. A label points to these fields:

- When user submits, if any of the required fields is empty, then add the class error to the required elements**

A label at the bottom points to the "Submit" button:

- Add handler for the submit event of the form**