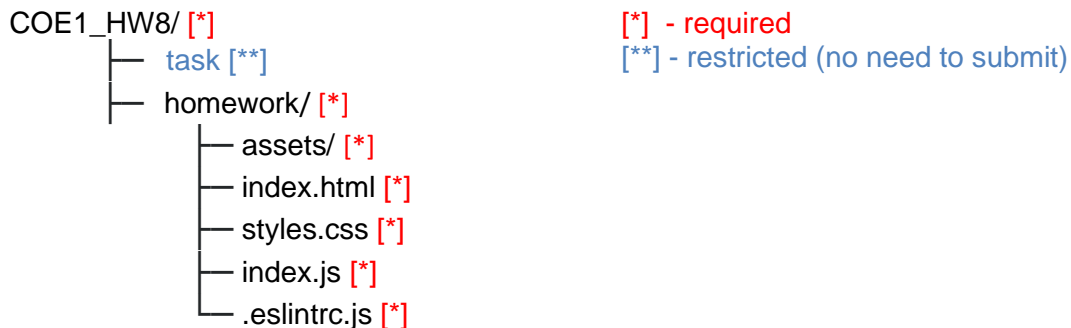


# JS DOM Events

**DEADLINE:** 06/07/2022, 18:00

## FOLDER STRUCTURE



## TASK

Write all of the tasks inside the *index.js* and an *index.html* file. For each task, you should create HTML template. Template for each task should be available in *index.html* file (each task has a special block, that separated by the comment). For providing styles, use *styles.css* file. (the same situation as for HTML template, each task has its own style block).

1. Create a table with selectable cells and rows. The table should consist of 3 columns with 3 rows. Every cell by default should have a white background color. Every cell should have the text "Cell" inside. The table should have one special cell with the text inside "Special cell" (you can put this special cell anywhere you want, expect first columns). The table should follow the next functionality:
  - If you click on some cell, the background color on this cell should toggle to yellow.
  - If you click on a cell in the first column the row of the selected cell should toggle background color to blue. Note: if in this row you select some other cell with the color yellow, the color of this row should not be changed.
  - If you click on a special cell, the background color on the whole table and cells, that were not selected should toggle to yellow.
  - Priority of colors:
    1. Yellow
    2. Blue
    3. Green

|      |      |              |
|------|------|--------------|
| Cell | Cell | Cell         |
| Cell | Cell | Special Cell |
| Cell | Cell | Cell         |

Pic. 1 – Task 1 base functionality visualization

2. Create an input field with validation. The input field should have a default black border. On the right side of the input should be the “Send” button. On typing text in the input field, you should validate the typed data. The data is valid when user type phone number in next format - +380\*\*\*\*\*. If data is invalid, you should disable the button, change the input border to red, and show a notification block above the input with the message, that data is invalid. If data is valid, the button should be available. On the button click, you should show a notification block above the input field with the message, that data was successfully sent.

Type number does not follow format  
+380\*\*\*\*\*

Type phone number in format +380\*\*\*\*\*
Send

Pic.2 – Functionality with invalid data

Data was successfully sent

+380964127630
Send

Pic.3 – Functionality with valid data that was sent

## RESTRICTIONS

- Adding **task/** folder is forbidden. Do not push it to repository. (Only **homework/** and **assets/** folders should be pushed)
- Using any external libraries is forbidden.

## BEFORE SUBMIT

- Code should be clean, readable, and tested
- Verify that all functionality is implemented according to the requirements.
- Run the linter and fix all the warnings and errors.
- Make sure your GitLab folder structure meets folder structure from this document (without **task** folder)

## SUBMIT

- The **COE1\_HW8** folder without **task** folder should be uploaded to GitLab repository “**COE-1**” into **main** branch.

## USEFUL LINKS

- <https://developer.mozilla.org/uk/docs/Web/API/Document>
- <https://developer.mozilla.org/en-US/docs/Web/API/CustomEvent/CustomEvent>
- <https://developer.mozilla.org/en-US/docs/Web/API/EventTarget/addEventListener>
- <https://javascript.info/event-delegation>
- <https://javascript.info/dispatch-events>
- <https://javascript.info/keyboard-events>