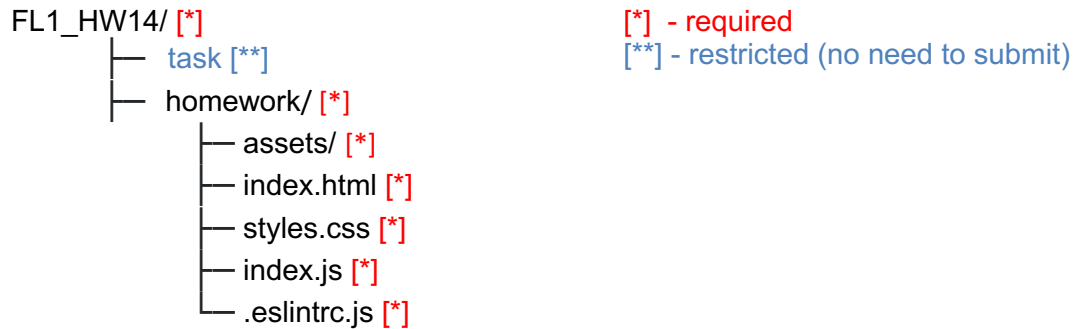


JS DOM Events

DEADLINE: 14/04/2021

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.

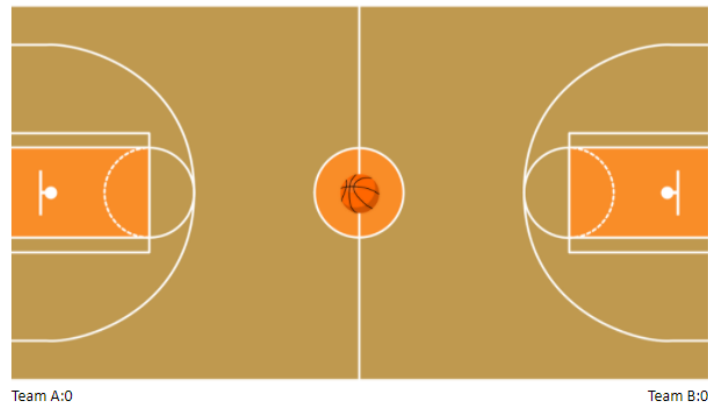
Type number does not follow format
 +380*****

Pic.2 – Functionality with invalid data

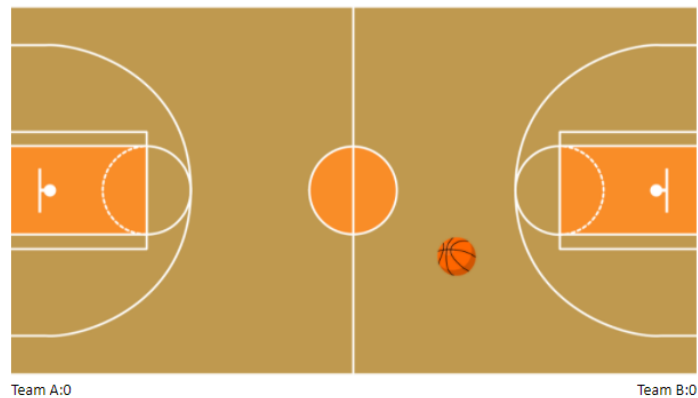
Data was successfully sent

Pic.3 – Functionality with valid data that was sent

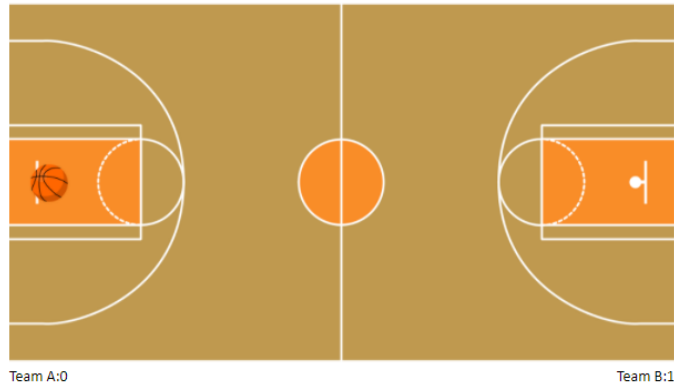
1. Create a basketball court with a moving ball and scoreboard. The court size should be 600x330px. Image for the court you can find in assets/ folder (court.png). The size of the ball should be 40x40px (assets/ball.png). By default, the ball position should be at the center of the court. Below the basketball court should be a scoreboard with the current score of team A and team B. If you click somewhere on the court the ball goes to that position. There is a basketball backboard with the hoop on each side of the court. You should establish a scoring zone there (15x15px). If you click on that zone, should be dispatched a custom event, that handled by notification. The scoreboard should show a notification message, with the team, that scores that goal and change the current score. After the 3 seconds, notifications should fade away.



Pic.4. – Default state

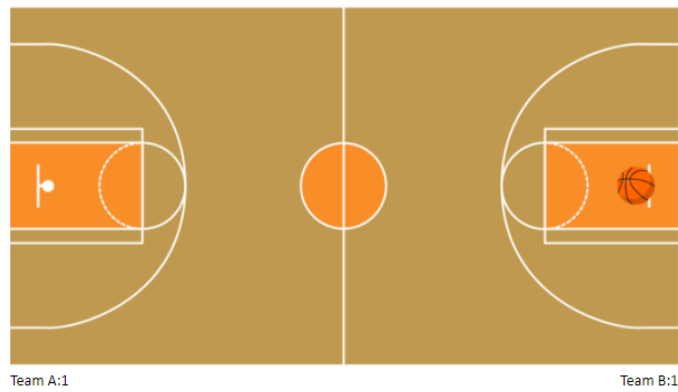


Pic.5 – Moving ball



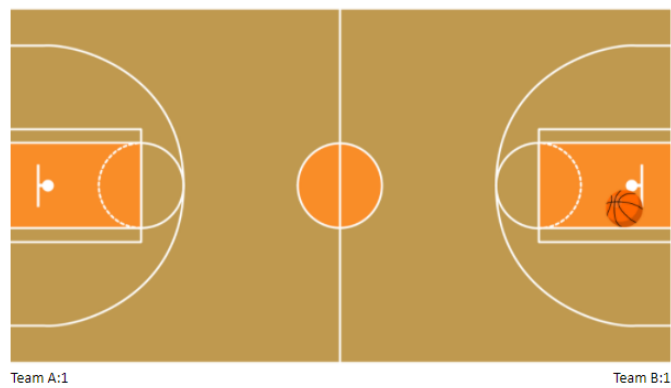
Team B score!

Pic.6 – Team B scored



Team A score!

Pic.7 – Team A scored



Pic.8 – Team A missed

For score notifications you should create a custom event with information about the team, that score the goal.

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 **FL1_HW14** folder without **task** folder should be uploaded to GitLab repository “**FL-HU1**” into **master** 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>