

## Course

### JavaScript Programming Language and jQuery

#### Module 3-4.

#### Event Handling. Browser Object Model.

#### Document Object Model

### Task 1

Create an html page with a list of links.

Links to external sources (which begin with `http://`) must be emphasized with a dotted line. Search for such links in the list and install additional styles with JS.

- index.html
- http://google.com
- https://itstep.org
- https://mystat.itstep.org
- /images/cat.jpg
- /local/path

### Task 2

Create an html page with a tree of subdirectories.

When you click on an item of the list, it should collapse or expand. When you hover over an element, the font should become bold (using CSS).

- This PC
  - Local Disk (C:)
    - Program Files
    - Users
    - Windows
  - **Local Disk (D:)**
    - New Folder 1
    - New Folder 2
    - New Folder 3
  - Local Disk (E:)

## Task 3

Create an html page with a list of books.

When clicking an element, the text color should change to orange. When you click on another book, the previous one needs to return to the previous color.

If the **Ctrl** key was pressed while clicking the mouse, the item is added to/removed from the selected ones. If the **Shift** key was pressed while clicking the mouse, all elements are added to the selection in the interval from the previous clicked to the current one.

1. "JavaScript for Kids: A Playful Introduction to Programming" by Nick Morgan
2. "Eloquent JavaScript: A Modern Introduction to Programming" by Marijn Haverbeke
3. "JavaScript: The Good Parts" by Douglas Crockford
4. "You Don't Know JS" by Kyle Simpson
5. "Programming JavaScript Applications: Robust Web Architecture with Node, HTML5, and Moderns JS Libraries" by Eric Elliott
6. "Effective JavaScript: 68 Specific Ways to Harness the Power of JavaScript" by David Herman
7. "JavaScript: The Definitive Guide" by David Flanagan

## Task 4

Create an html page for displaying/editing text.

When you open a page, the text is displayed with the `div` tag. When you press **Ctrl+E**, `textarea` appears instead of `div` containing the same text that you can now edit. When you press **Ctrl+S**, `div` appears instead of `textarea` with the text already changed. Do not forget to turn off the default behavior for these keyboard shortcuts.

Press **Ctrl+E** for edit text.  
Press **Ctrl+S** for save text.

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

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## Task 5

Create an html page with a large table. When clicking on the column heading, you need to sort data by this column. For example: in the screenshot, people are sorted by age. Note that numeric values should be sorted as numbers, not as strings.

Firstname	Lastname	Age	Company
Mark	Zuckerberg	34	Facebook
Larry	Page	45	Google
Timothy	Cook	57	Apple
Bill	Gates	62	Microsoft

## Task 6

Create an html page with a block of text in a frame.

Implement the ability to resize the block if you hold the mouse in the lower right corner and drag it.

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