

# BOM

**DEADLINE:** 28/07/2019

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## FOLDER STRUCTURE

```
FLX_HW12/*
├─ homework/*
│   └─ eslintrc.js*
├─ src/*
│   └─ app.js*
├─ assets/*
│   └─ img/*
│       └─ images...*
├─ styles.css*
└─ index.html*
```

\* - required

## TASK

Implement a simple TODO list application.

When the application is loaded I can see the section with TODO items (it should be empty on first load). Each item could be marked as done and to be removed from the list. In the top-center, I can see the button which allows me to add new tasks into TODO list. When I press the "Remove" button then item should be removed from the list. When I press the "Done" button then item should be marked as done and be moved to the end of the list. When I press the "Done" button on item which marked as done item should be unmarked as done(not checked) and be moved before items marked as done. When I click on the item then application provides me possibility to modify description of the task.

Application consists of three pages:

- Main page
- Add new item
- Modify appropriate item description.

The Main page shows us list of TODO items. Features:

- Add new item
- Modify existed item
- Mark item as done
- Unmark items
- Remove item from list
- Show error alert

Upon clicking the "Add task" button system should redirect to the "Add new item" page.

Upon clicking a not done TODO item system should redirect to the "Modify item" page. If click on already done TODO should show custom styled alert with text **"Error! You can't edit already done item"**.

The “Add new item” page shows empty input field, "Save changes" and "Cancel" buttons. Item can be added when it's not empty and it is not a duplicate (URL hash should have #/add suffix). If it is duplicate should show custom styled alert with text “**Error!** You can't add already exist item”. If item was added, the application will redirect user to main page. The last added item should be displayed at the end of all TODO items and before items marked as done.

The “Modify item page” shows input field with appropriate description, "Save changes" and "Cancel" buttons. Item can be modified when description is not empty and it is not a duplicate (The URL hash should consist of #/modify/:item\_id suffix). If it is duplicate should show custom styled alert with text “**Error!** You can't add already exist item”. After successful modification, application redirects to main page. And the modified item should be located in the same position as it was before the modification.

"Cancel" button only redirects user to main page.

The “custom styled alert” should have different positions, it depends what browser do you use. If it is Chrome it should be at left top corner at another browsers it is right top corner. Alert should disappear(hide) after 2 sec.

Please pay attention that:

1. After refreshing the page all previously added items should be shown. (Please use localStorage for storing data)
2. All pages should be rendered into `<div id="root"></div>` which locates inside the body tag. (Please listen hashchange event to appropriately handle changing of routes)

## RESTRICTIONS

- You don't need to spend time for implementing design of the application (you could reuse some existed if it possible)
- You don't need to use any frameworks or libs for routing, just pure JS and HTML

## BEFORE SUBMIT

- Verify that code is formatted.
- Remove unnecessary code.
- Verify that all functionality is implemented according to requirements.
- Remove or add comments.
- Validate code via eslint;

## SUBMIT

- The folder should be uploaded to github repository ‘**FL11**’ into **master** branch.