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Web Programming
Laboratory work #3

To not do app

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1 Task

The app has to cover basic needs:

1. to add to the list;
2. to remove from the list;
3. to mark as not done;
4. to see "not-done" and "to-not-do" lists separately (how?).

The app has to look attractive. You're not allowed to use any third-party library for JS, except utility functions such as `lodash` or `underscore`. `jquery` is not allowed.

2 Results

2.1 Adding to the list

The addition of a new task is done by adding text to the “Task” and “Image URL” fields, then clicking on the “Add” button (figure 1). The date field is a part of the additional feature. It sets the day for which the task is meant. The default value is the current date.

The screenshot displays a web application for managing tasks. At the top, there's a header with a red 'Not to do' button and the text 'tasks list'. Below this is a form to add a new task. The form includes a 'Task' input field with the text 'Don't pet this dog', an 'Image URL' input field with the URL 'https://blog.healthypawspetinsurance.com/wp-content/uploads/dog_anxiety_640x420.jpg', and a 'For' date field set to '03 / 11 / 2022'. An 'Add' button is to the right of the date field. Below the form, there are filters: 'Task for today' (checked), 'All tasks', and 'For other date' (03 / 11 / 2022). A 'Tasks type' dropdown menu is set to 'All tasks'. The main area shows a list of tasks. The first task is 'Don't pet this dog' with a small image of a dog. It is marked as 'Not done' with a checkbox. To the right of the task is a 'remove' button. The date '2022-3-11' is also visible.

Figure 1. The addition of a task with text and image.

There is also possible to add a task with only text content (figure 2) or with only an image content (figure 3), but not with both empty fields.

The screenshot shows a web application titled "Not to do tasks list". At the top, there is a form with a "Task" input field containing the text "Remember the thing I forgot yesterday". Below it is an "Image URL" input field which is empty. To the right of the "Image URL" field is a "For" date field set to "03 / 16 / 2022" and an "Add" button. Below the form, there are filters: "Task for today", "All tasks" (checked), "For other date", and a date field set to "03 / 11 / 2022". To the right of the filters is a "Tasks type" dropdown menu set to "All tasks". Below the filters is a table with three columns: "Not done", "Task", and "For date". The table contains two rows. The first row has a checkbox, a small image of a dog, the text "Don't pet this dog", and the date "2022-3-11" with a "remove" button. The second row has a checkbox, an empty image field, the text "Remember the thing I forgot yesterday", and the date "2022-3-11" with a "remove" button.

Figure 2. The addition of a task only with text.

The screenshot shows the same web application as Figure 2. The "Task" input field is empty. The "Image URL" input field now contains the URL "https://geniuscook.com/wp-content/uploads/2014/12/chokolade-bar-man.jpg". The "For" date field is still set to "03 / 16 / 2022" and the "Add" button is present. The filters and "Tasks type" dropdown menu are the same as in Figure 2. The table now contains three rows. The first row is the same as in Figure 2. The second row is the same as in Figure 2. The third row has a checkbox, a small image of a man eating a chocolate bar, an empty text field, and the date "2022-3-16" with a "remove" button.

Figure 3. The addition of a task only with an image.

2.2 Removing from the list

To remove from the list, click on the “remove” button (figure 4), in this case the 3rd item was removed.

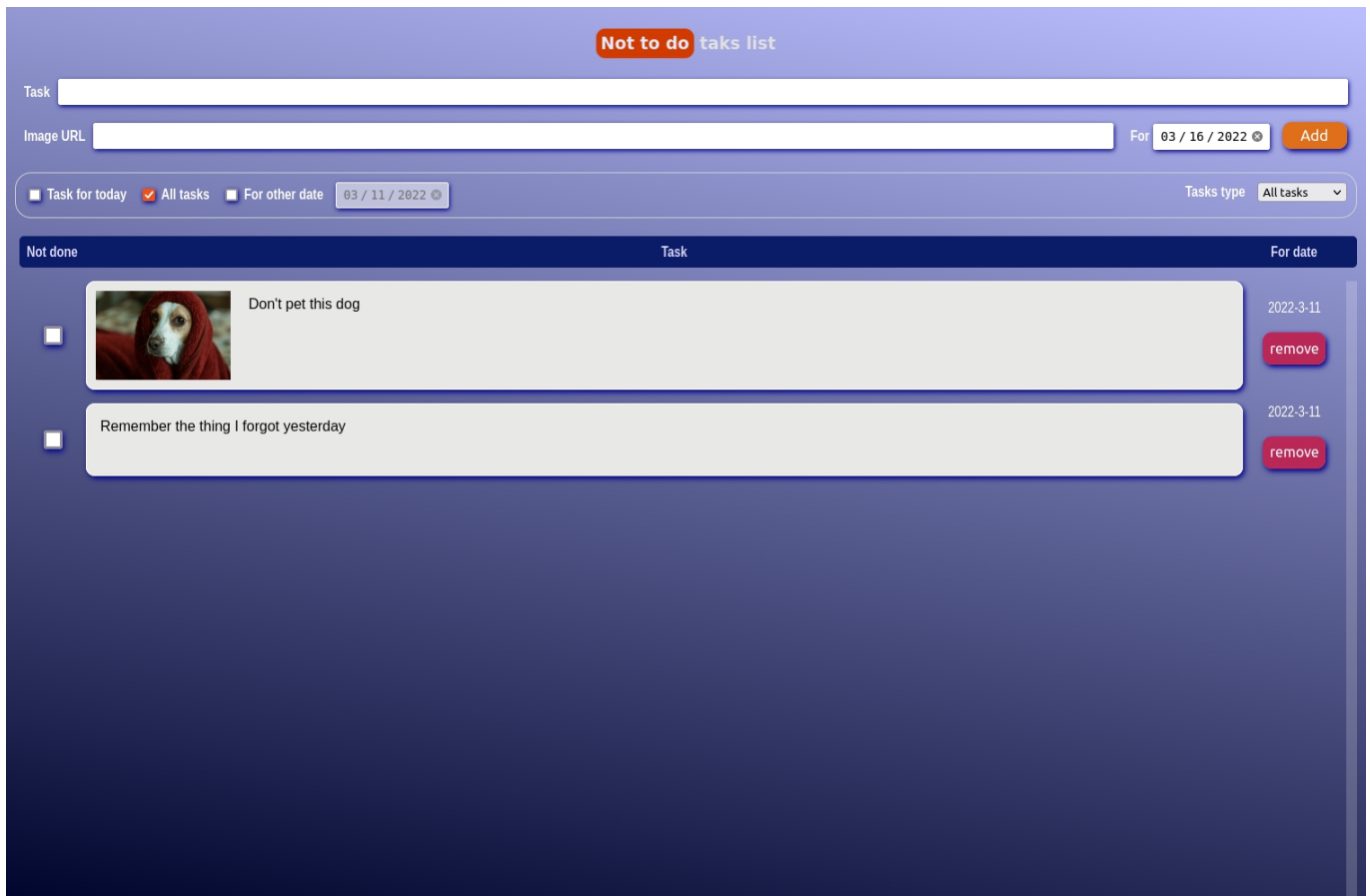


Figure 4. The 3rd item is deleted.

2.3 Marking as “not done”

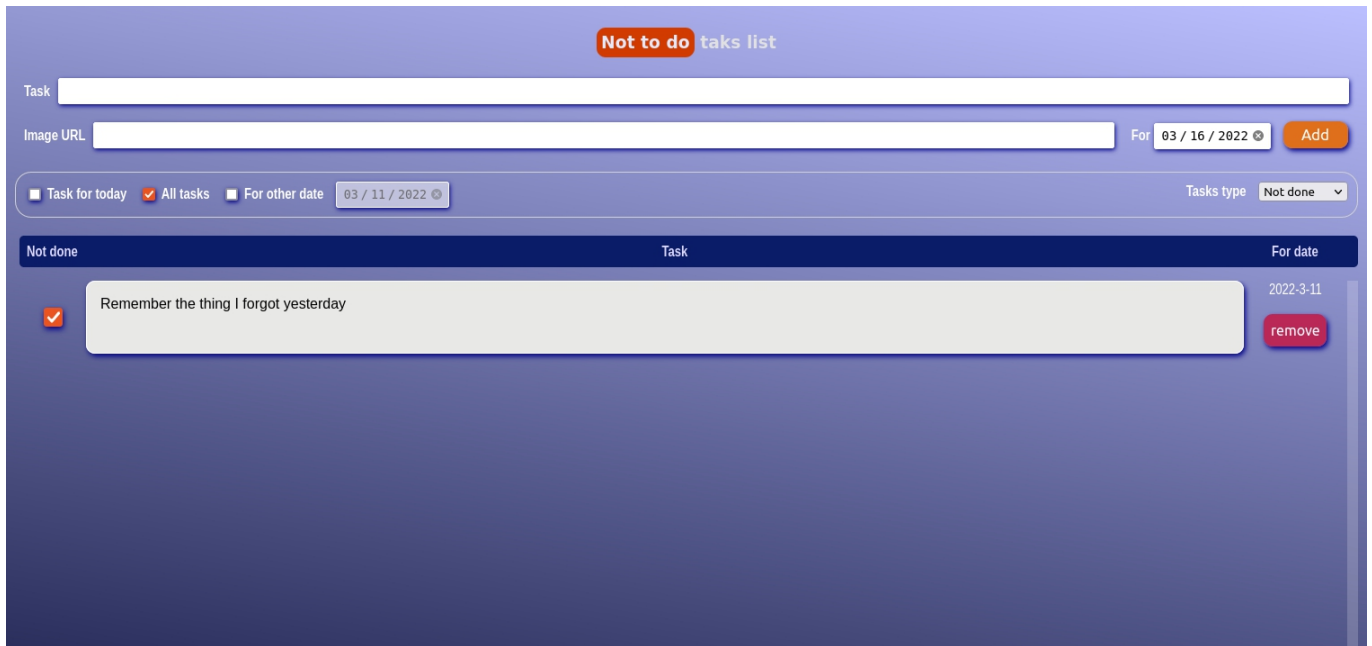
For marking as “not done”, set the checkbox of the item in the checked state (figure 5).



Figure 5. The 2nd item was marked as “not done”

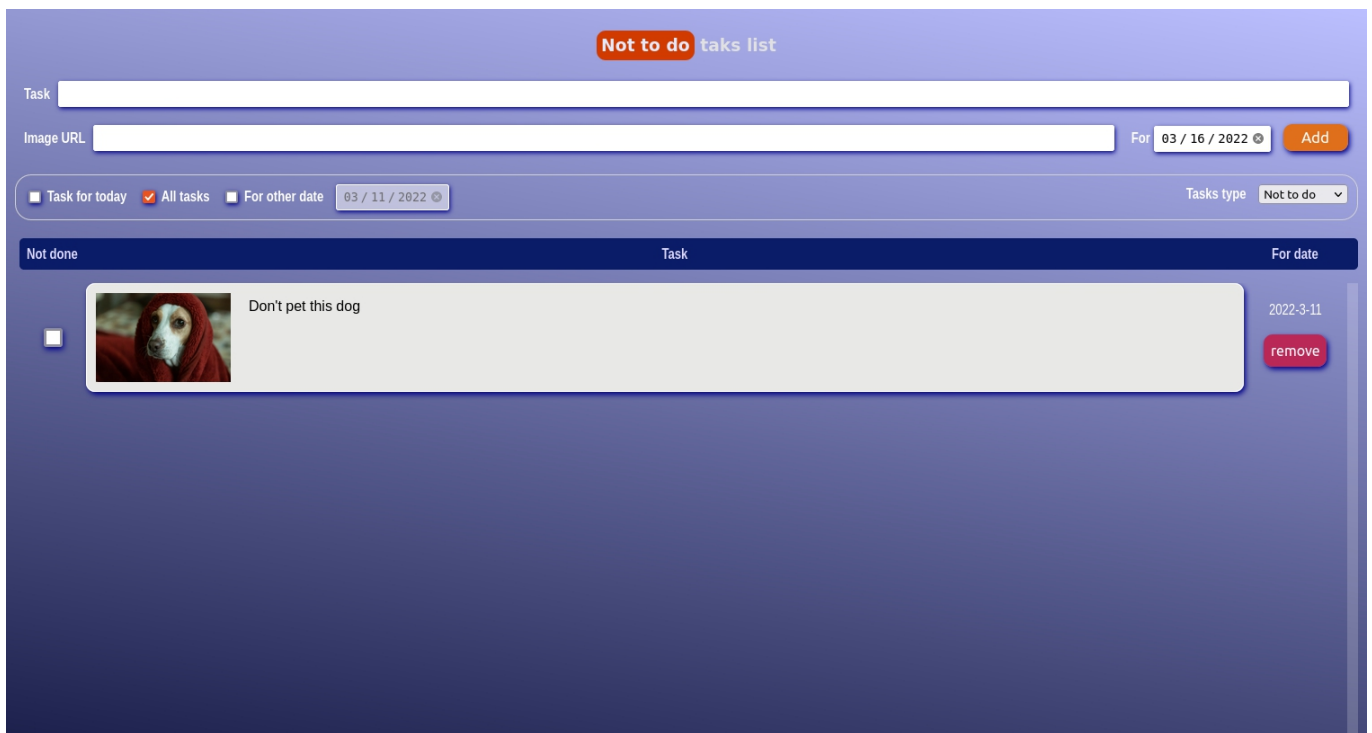
2.4 Displaying "not-done" and "to-not-do" lists separately

To see the two list separately, set the “task type” filed to “Not done” (figure 6) and “Not to do” (figure 7) values respectively.



The screenshot shows a web application titled "Not to do" tasks list. At the top, there are input fields for "Task" and "Image URL", followed by a "For" date field set to "03 / 16 / 2022" and an "Add" button. Below these are filter options: "Task for today", "All tasks" (checked), and "For other date" with a date field set to "03 / 11 / 2022". On the right, a "Tasks type" dropdown menu is set to "Not done". The main content area displays a table with columns "Not done", "Task", and "For date". A single task is listed: "Remember the thing I forgot yesterday" with a checked checkbox and a "remove" button. The date "2022-3-11" is shown in the "For date" column.

Figure 6. The “Not done” items are filtered in a separate list.



The screenshot shows the same web application as Figure 6, but with the "Tasks type" dropdown menu set to "Not to do". The main content area displays a table with columns "Not done", "Task", and "For date". A single task is listed: "Don't pet this dog" with an unchecked checkbox and a "remove" button. The date "2022-3-11" is shown in the "For date" column. The task description is accompanied by a small image of a dog wearing a red hood.

Figure 7. The “Not to do” items are filtered in a separate list.

2.5 Additional feature

As an additional feature I implemented the date for the task when it is meant to be “not done”. Also, the items can be filtered by date. The “All tasks” does not apply any date filtering (Figure 8). The “Tasks for today” filters the items meant for today.



Figure 8. Not filtering by date.

Choosing the “Tasks for today” and “For other date”, filters the items by the current date (figure 9) or by the selected one (figure 10).

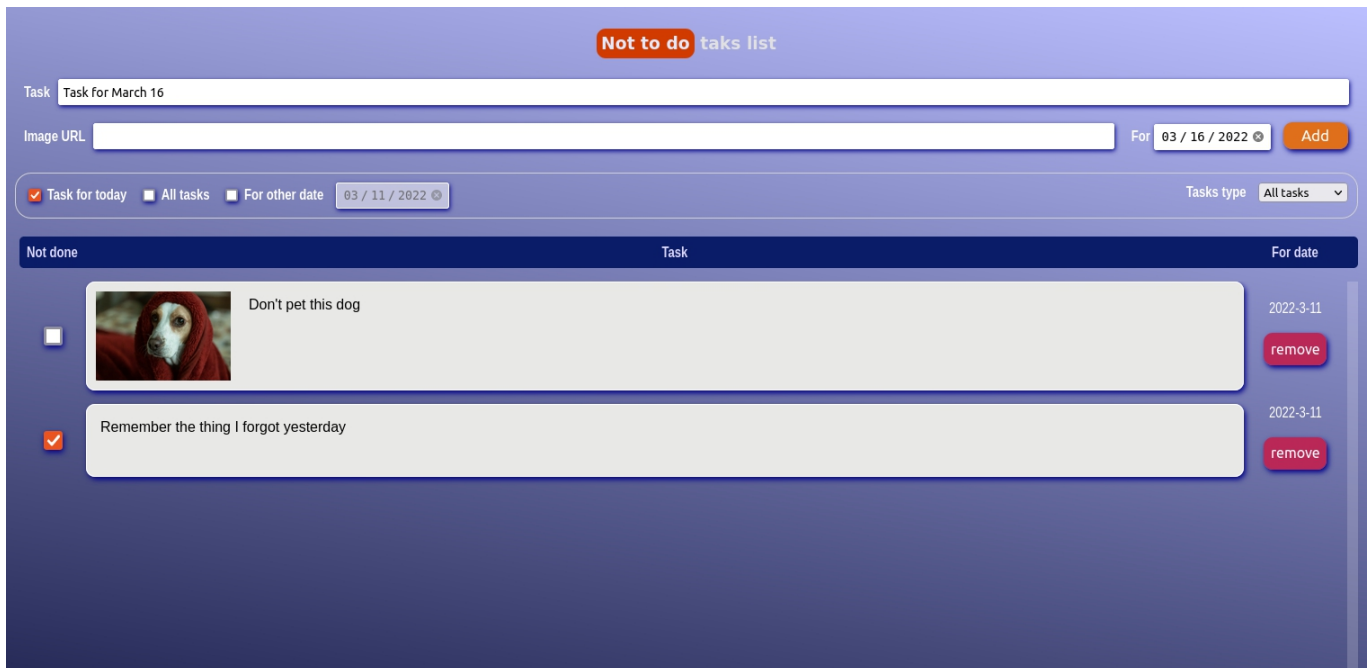


Figure 9. Filtering by current date.

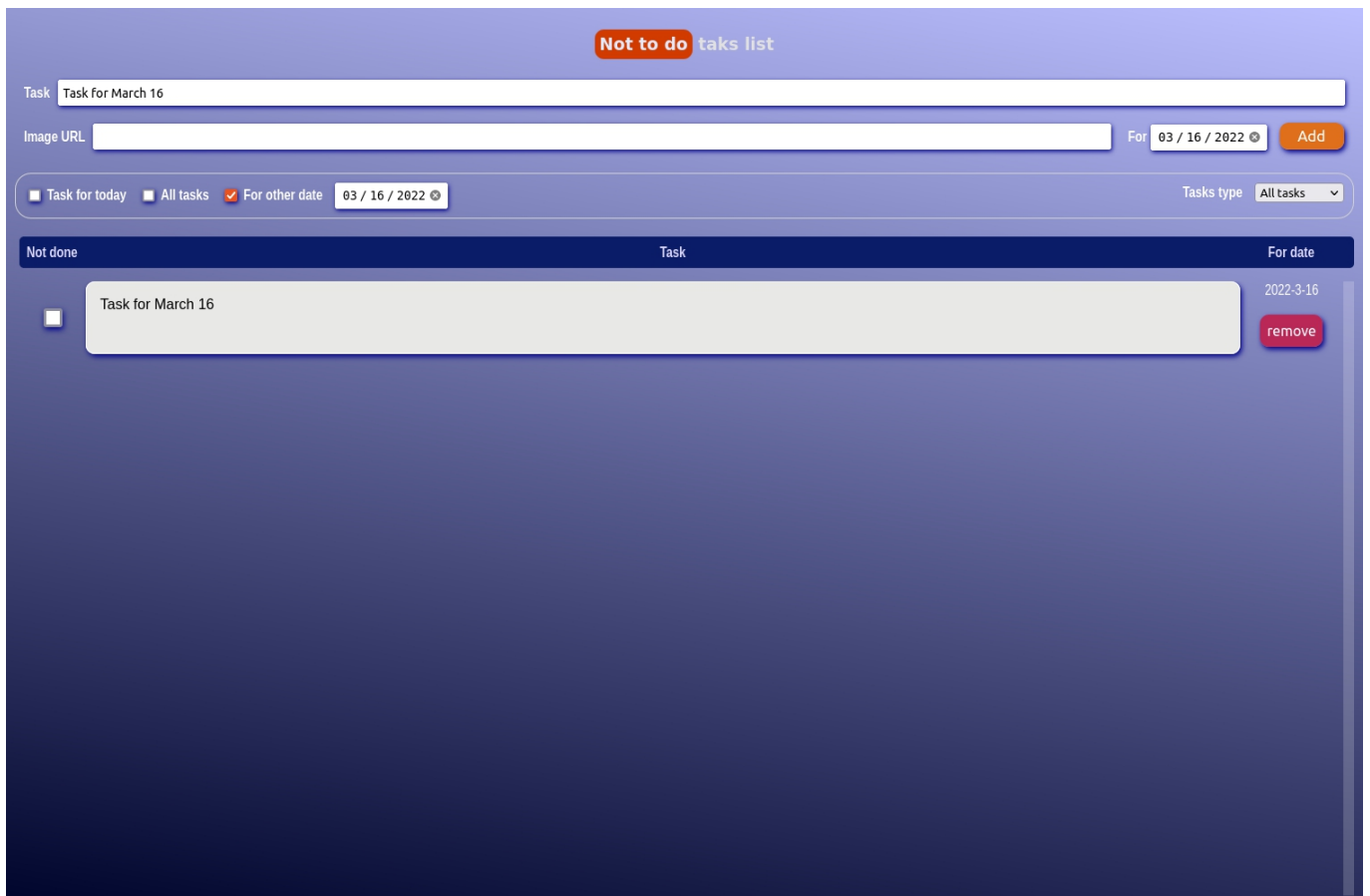


Figure 10. Filtering by selected date.

The list with all the details is preserved after the page refresh.

3 Conclusion

When implementing the tasks, I've learned how to create classed with usual and static methods in JavaScript, to work with DOM elements (create, change parameters), to execute instructions on events (window load or value change) and to store data in browser using LocalStorage.

References

- [1] JavaScript Date Formats, https://www.w3schools.com/js/js_date_formats.asp
Accessed on March 10, 2022.
- [2] How to set value of input type date in javascript code example , <https://newbedev.com/how-to-set-value-of-input-type-date-in-javascript-code-example>
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- [3] LocalStorage, sessionStorage, <https://javascript.info/localstorage>
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