

Tasks

Please implement the following tasks in any order you see fit, and make sure all the verification steps are successful.

Task A - Persist TODOs

Currently, all TODOs disappear when you refresh the page. Modify the application so that TODOs remain even after a refresh. Ensure that each TODO's state (whether it is completed or active) is also preserved. An attempt to implement this functionality was made, but it is not working correctly at this moment. Please fix or reimplement the functionality.

Verification:

- Add some TODOs, refresh the page, and confirm the TODOs are still there.
- Mark some TODOs as completed, refresh the page, and confirm both the TODOs and their states remain unchanged.
- Edit some TODOs, refresh the page, and confirm the changes are still there.
- Delete some TODOs, refresh the page, and confirm the deleted TODOs are still gone.

Task B - Save drafts

If a user refreshes the page while typing a new TODO, the text in the input field disappears. Modify the application so that the input field automatically saves drafts every few seconds, and restore them when the page reloads.

Verification:

- Type a new TODO without submitting, refresh the page, and confirm the input text is still there.
- Type a new TODO, submit it, refresh the page, and confirm the input text is still empty.

Task C - Pagination

Currently, the TODO application displays all tasks in a single list. Implement pagination to limit the number of displayed TODOs per page, allowing users to easily navigate through their tasks.

Modify the application to display a fixed number of TODOs per page, with options to show 1, 3, or 5 (the default value) TODOs at a time. Also implement navigation controls to allow users to move between pages of TODOs. The application should have "Next" and "Previous" buttons to navigate between pages. The "Next" button should be disabled and grey when the user is on the last page, and the "Previous" button should be disabled and grey when the user is on the first page. The page that the user is currently on should also be indicated. An attempt to implement the navigation functionality was made, but it is not working correctly at this moment. Please fix or reimplement the navigation and implement the other requirements.

Verification:

- Add 10 or more TODOs, give them sequential numbers as names to easily track them.

- Confirm that users can select options to show 1, 3, or 5 TODOs at a time.
- Select different page size options and confirm that only the chosen number of TODOs are displayed at a time.
- Confirm that the current page is indicated clearly.
- Click the "Next" button and confirm it loads the next page.
- Click the "Previous" button and confirm it loads the previous page.
- Navigate to the first page and confirm that the "Previous" button is disabled and grey.
- Navigate to the last page and confirm that the "Next" button is disabled and grey.
- Confirm that the TODO count on each page matches the selected page size.
- Confirm that the last page contains at least 1 and at most the selected number of TODOs.
- Confirm that all the TODOs added are present.