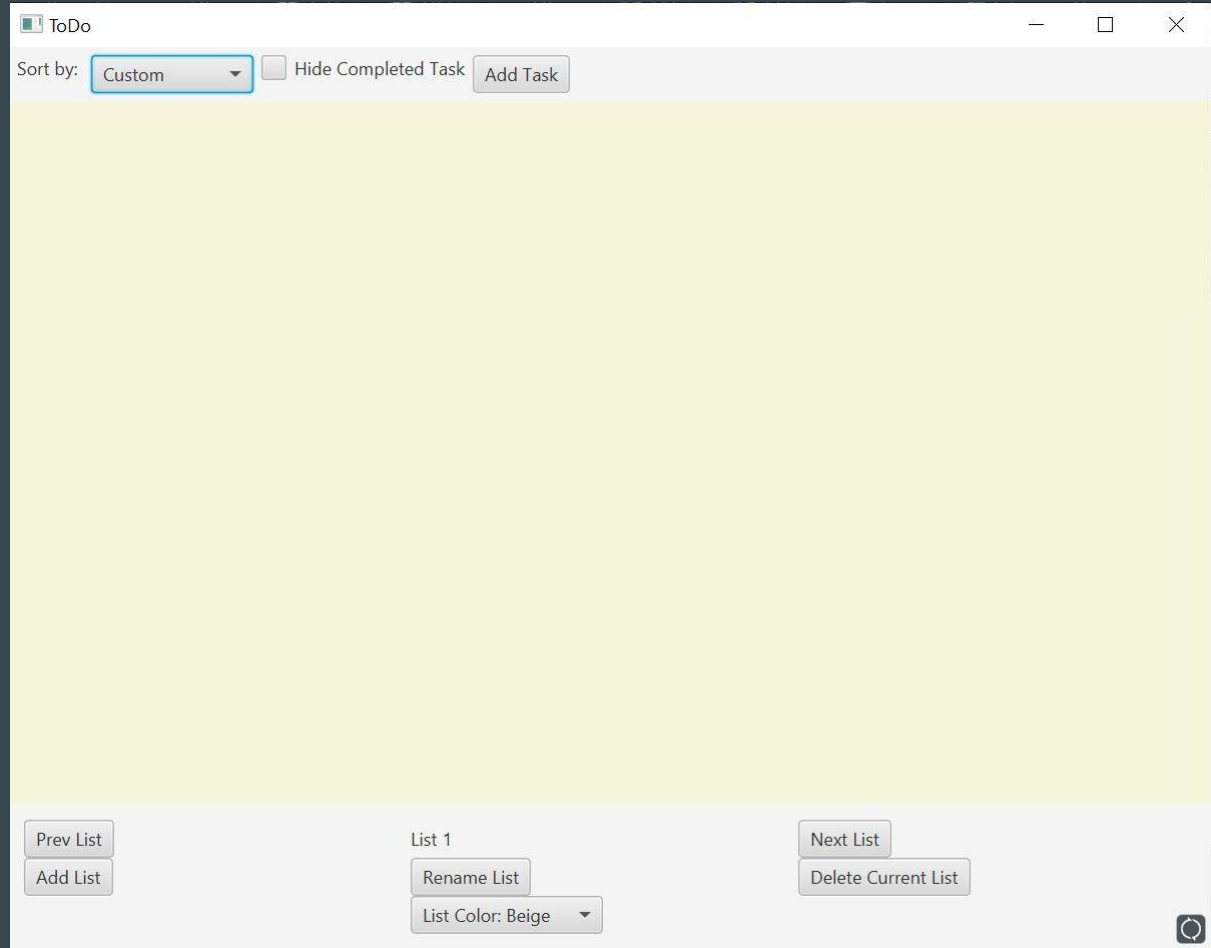


ToDo List

...

Startup with No Save

- Creates 1 empty ToDo List.
- Color auto set to beige.
- Waiting for user to add tasks and customize.



Adding Tasks

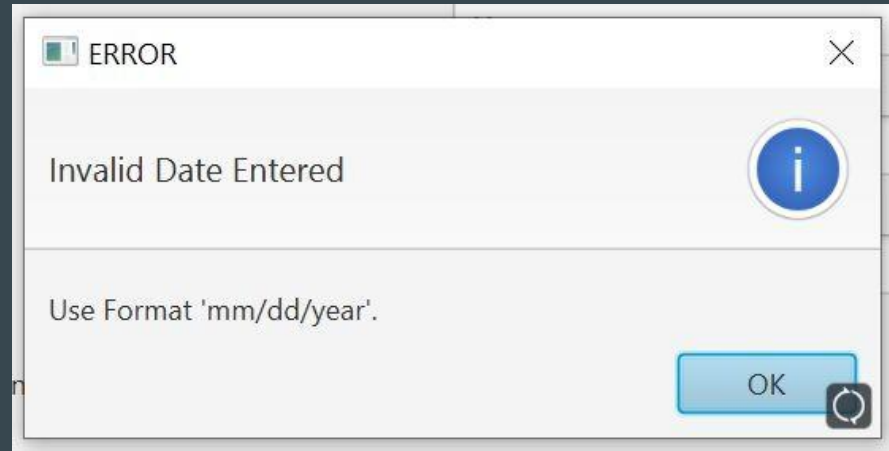
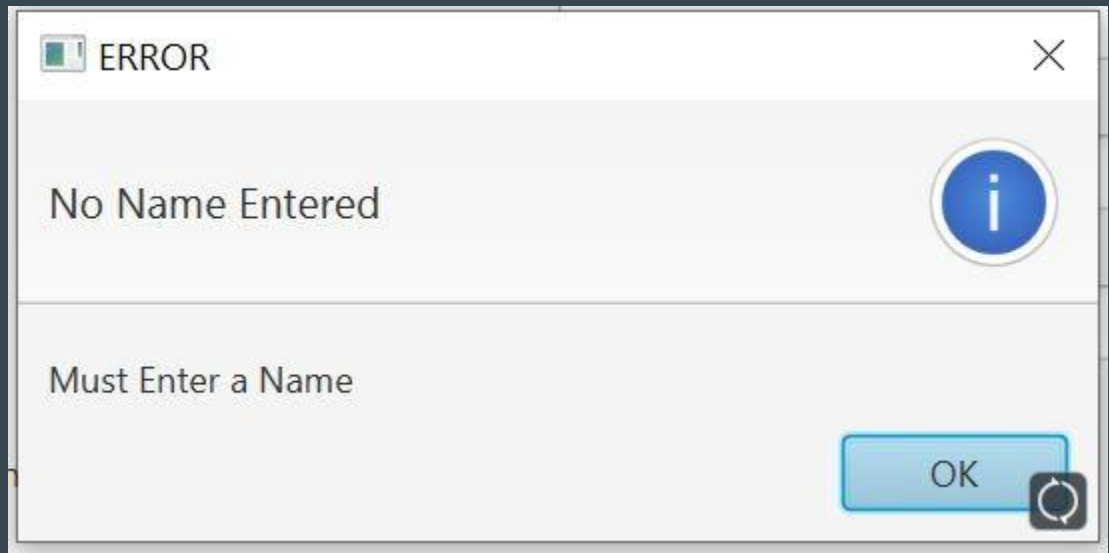
- Clicking the Add Task button at the top of the window will open a new window for the user to input info about the task they are adding to the list.

The image shows a 'ToDo' application window with a title bar containing a green icon, the text 'ToDo', and standard window controls (minimize, maximize, close). Below the title bar, there is a 'Sort by:' dropdown menu set to 'Custom', a checkbox for 'Hide Completed Task', and an 'Add Task' button. A mouse cursor is clicking the 'Add Task' button. Below the main window, a 'New Task' dialog box is open. It has a title bar with a green icon, the text 'New Task', and standard window controls. The dialog contains the following fields and controls:

- Name:** A text input field with a blue border.
- Description:** A text input field.
- Deadline:** A text input field with the placeholder text 'mm/dd/year'.
- Important:** A checkbox.
- Location:** A text input field with the placeholder text 'Name/Address'.
- Create New Task:** A button at the bottom.
- Refresh:** A circular arrow icon in the bottom right corner.

Adding Tasks

- Name and Deadline are mandatory for all tasks because it doesn't make too much sense for a task on a ToDoList to not have those things.
- A window will pop up informing users about the mandatory Name and Deadline if they attempt to create a task without either of those fields.



Adding Tasks

- Once the user supplies the mandatory and/or optional information in the New Task window, the task will appear on the list showcasing all the fields the user placed.

The screenshot shows a web application window titled "ToDo". At the top, there is a "Sort by:" dropdown menu set to "Custom", a checkbox for "Hide Completed Task", and a blue-outlined "Add Task" button. Below this is a task entry row with the following fields: "This is a Name", "This is a Description", "05/05/2021", "Tucson", a "Complete" checkbox, an "Important" checkbox, and buttons for "Rename", "Move up", "Move Top", and "Remove". The main area of the window is a large yellow rectangle representing a task list. At the bottom, there are controls for managing lists: "Prev List", "Add List", "List 1" (with "Rename List" and "List Color: Beige" dropdown below it), "Next List", and "Delete Current List". A small circular icon is in the bottom right corner.

Adding Tasks

- Of course multiple tasks can be added to the list.

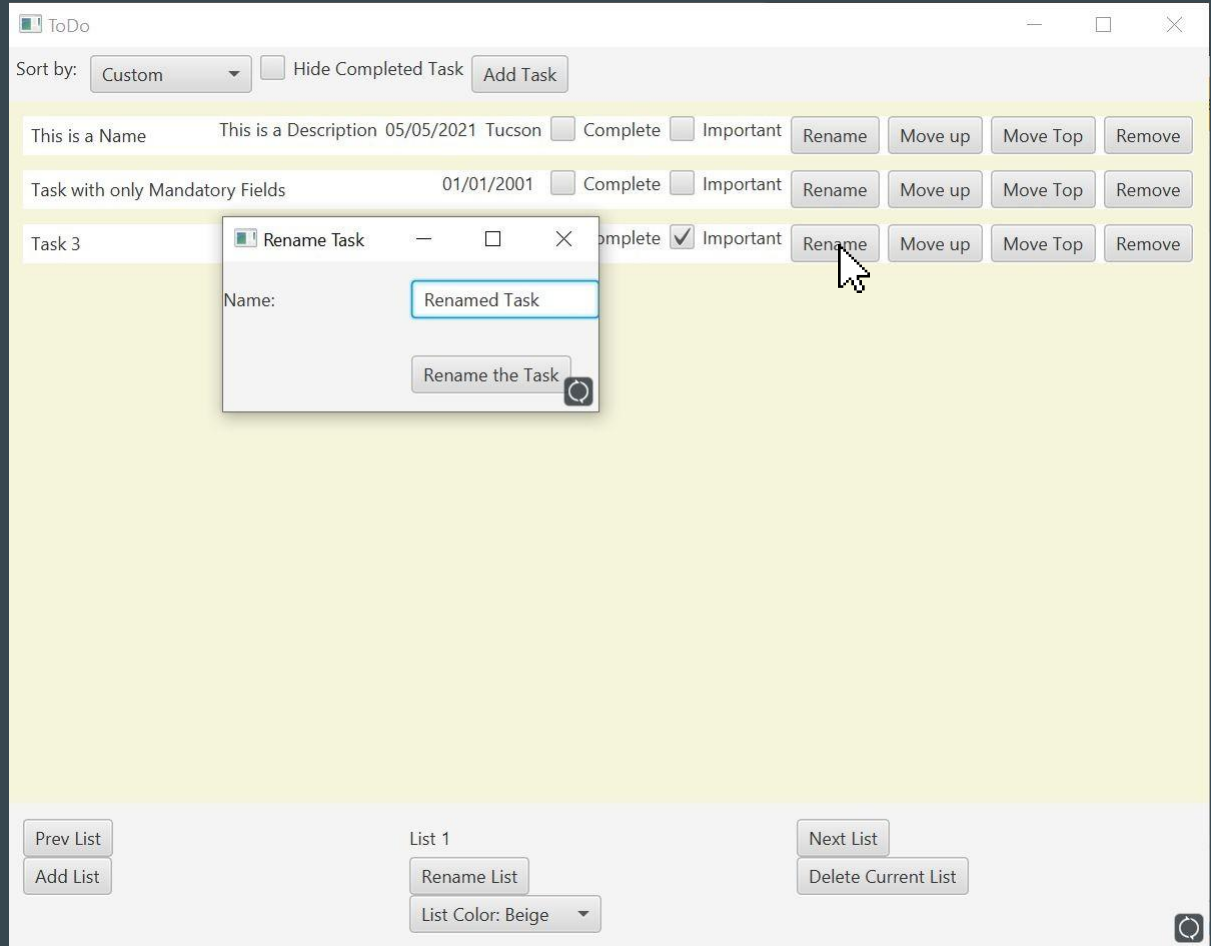
The screenshot shows a 'ToDo' application window with a light yellow background. At the top, there's a title bar with 'ToDo' and standard window controls. Below the title bar, there's a 'Sort by:' dropdown set to 'Custom', a 'Hide Completed Task' checkbox, and a blue-outlined 'Add Task' button. The main area contains a table of tasks:

This is a Name	This is a Description	05/05/2021	Tucson	<input type="checkbox"/> Complete	<input type="checkbox"/> Important	Rename	Move up	Move Top	Remove
Task with only Mandatory Fields		01/01/2001		<input type="checkbox"/> Complete	<input type="checkbox"/> Important	Rename	Move up	Move Top	Remove
Task 3	This is 3rd Task	01/02/2001		<input type="checkbox"/> Complete	<input checked="" type="checkbox"/> Important	Rename	Move up	Move Top	Remove

Below the task list, there's a large empty yellow area. At the bottom, there's a control bar with buttons for 'Prev List', 'Add List', 'List 1', 'Rename List', 'List Color: Beige' (with a dropdown arrow), 'Next List', and 'Delete Current List'. A small circular icon is in the bottom right corner.

Rename Task

- Clicking the Rename button on a task will open a window allowing you to rename the Task.



Marking Completed Tasks

- Any task can be marked completed simply by checking the Complete checkbox.
- Any task can also of course be marked uncompleted again by unchecking the box.

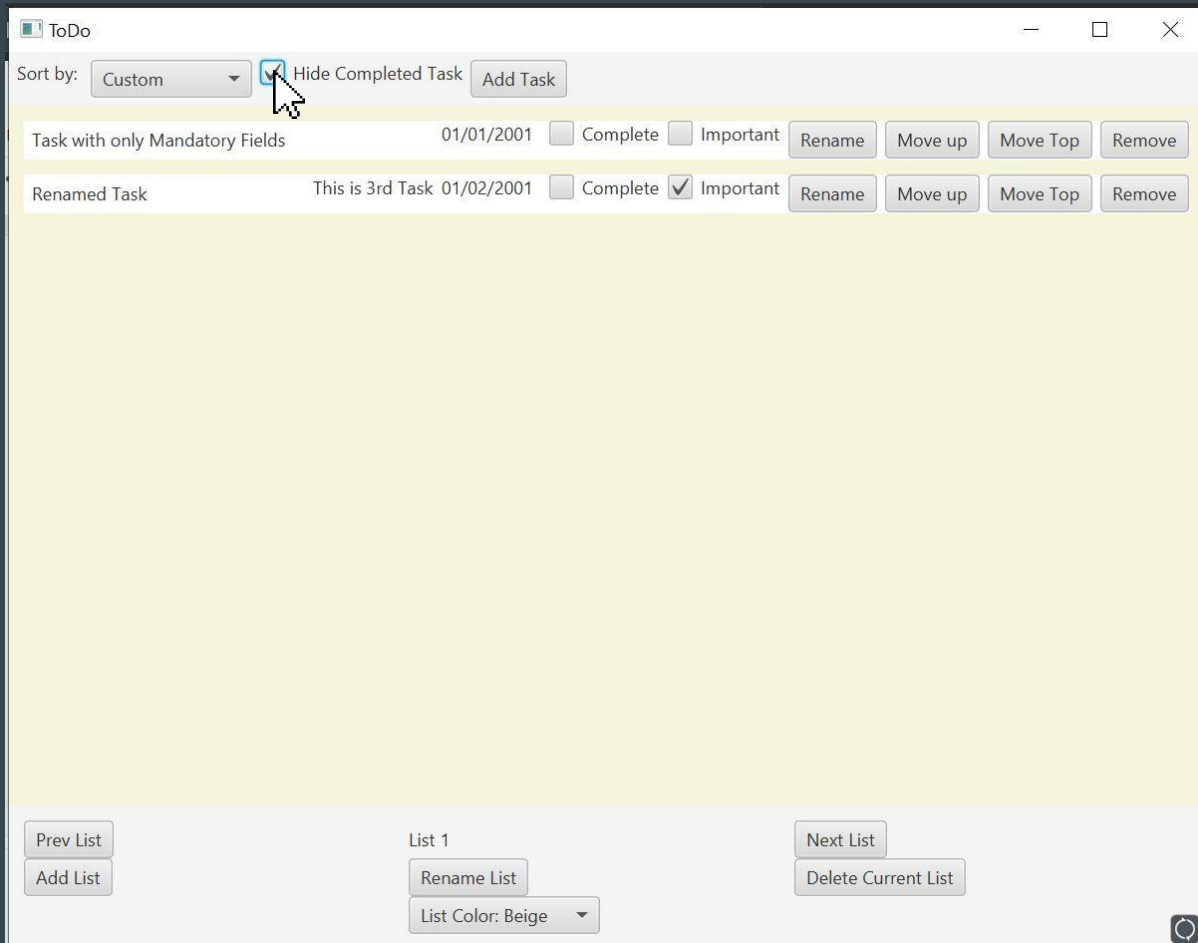
The screenshot shows a 'ToDo' application window with a light gray header and a yellow background for the task list. The header contains a 'Sort by:' dropdown set to 'Custom', a 'Hide Completed Task' checkbox, and an 'Add Task' button. The task list contains three items, each with a 'Name', 'Description', 'Date', 'Location', 'Complete' checkbox, 'Important' checkbox, and four action buttons: 'Rename', 'Move up', 'Move Top', and 'Remove'.

Name	Description	Date	Location	Complete	Important	Actions
This is a Name	This is a Description	05/05/2021	Tucson	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rename, Move up, Move Top, Remove
Task with only Mandatory Fields		01/01/2001		<input type="checkbox"/>	<input type="checkbox"/>	Rename, Move up, Move Top, Remove
Renamed Task	This is 3rd Task	01/02/2001		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rename, Move up, Move Top, Remove

At the bottom of the window, there are buttons for 'Prev List', 'Add List', 'List 1', 'Rename List', 'List Color: Beige' (with a dropdown arrow), 'Next List', and 'Delete Current List'. A small circular icon is in the bottom right corner.

Hiding Completed Tasks

- Completed tasks can be hidden by the Hide Completed Task button.
- The completed tasks can be shown again by unchecking the Hide Completed Task button.
- Useful for seeing what tasks are still not done.



Marking Important Tasks

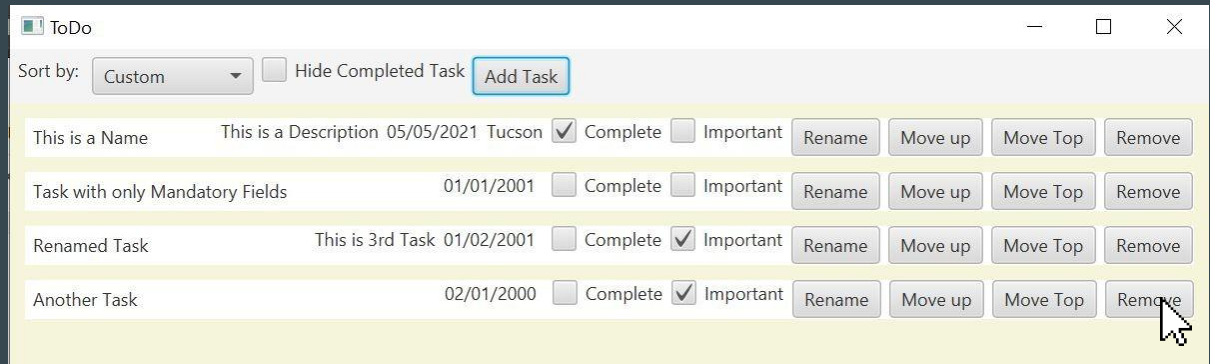
- A task can be marked important when adding a new task
- Or by clicking the Important checkbox for a task on the list screen.

The screenshot shows a 'ToDo' application window. At the top, there's a 'Sort by:' dropdown set to 'Custom', a 'Hide Completed Task' checkbox, and an 'Add Task' button. Below this is a list of tasks, each with a name, description, date, location, and checkboxes for 'Complete' and 'Important'. The 'Important' checkbox for the task 'Another Task' is being clicked by a mouse cursor. At the bottom, there are buttons for 'Prev List', 'Add List', 'List 1', 'Rename List', 'List Color: Beige' (with a dropdown arrow), 'Next List', and 'Delete Current List'.

Name	Description	Date	Location	Complete	Important	Actions
This is a Name	This is a Description	05/05/2021	Tucson	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rename Move up Move Top Remove
Task with only Mandatory Fields		01/01/2001		<input type="checkbox"/>	<input type="checkbox"/>	Rename Move up Move Top Remove
Renamed Task	This is 3rd Task	01/02/2001		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rename Move up Move Top Remove
Another Task		02/01/2000		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rename Move up Move Top Remove

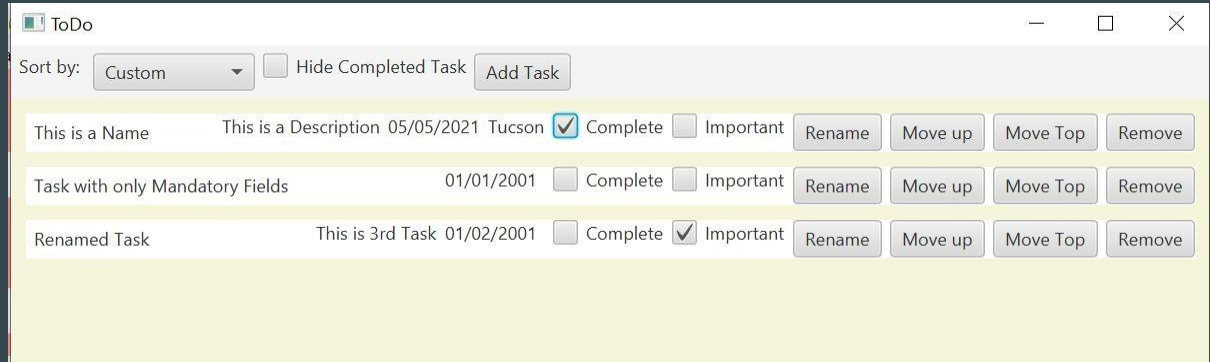
Removing Tasks

- Any task can simply be removed through the Remove button.



The screenshot shows a web application titled "ToDo". At the top, there is a "Sort by:" dropdown menu set to "Custom", a checkbox for "Hide Completed Task", and an "Add Task" button. Below this is a table of tasks. The first task is "This is a Name" with description "This is a Description", date "05/05/2021", location "Tucson", and status "Complete" (checked). The second task is "Task with only Mandatory Fields" with date "01/01/2001" and status "Complete". The third task is "Renamed Task" with description "This is 3rd Task", date "01/02/2001", and status "Important" (checked). The fourth task is "Another Task" with date "02/01/2000" and status "Important" (checked). Each task row has buttons for "Rename", "Move up", "Move Top", and "Remove". A mouse cursor is pointing at the "Remove" button of the last task.

Name	Description	Date	Location	Complete	Important	Actions
This is a Name	This is a Description	05/05/2021	Tucson	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rename Move up Move Top Remove
Task with only Mandatory Fields		01/01/2001		<input type="checkbox"/>	<input type="checkbox"/>	Rename Move up Move Top Remove
Renamed Task	This is 3rd Task	01/02/2001		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rename Move up Move Top Remove
Another Task		02/01/2000		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rename Move up Move Top Remove

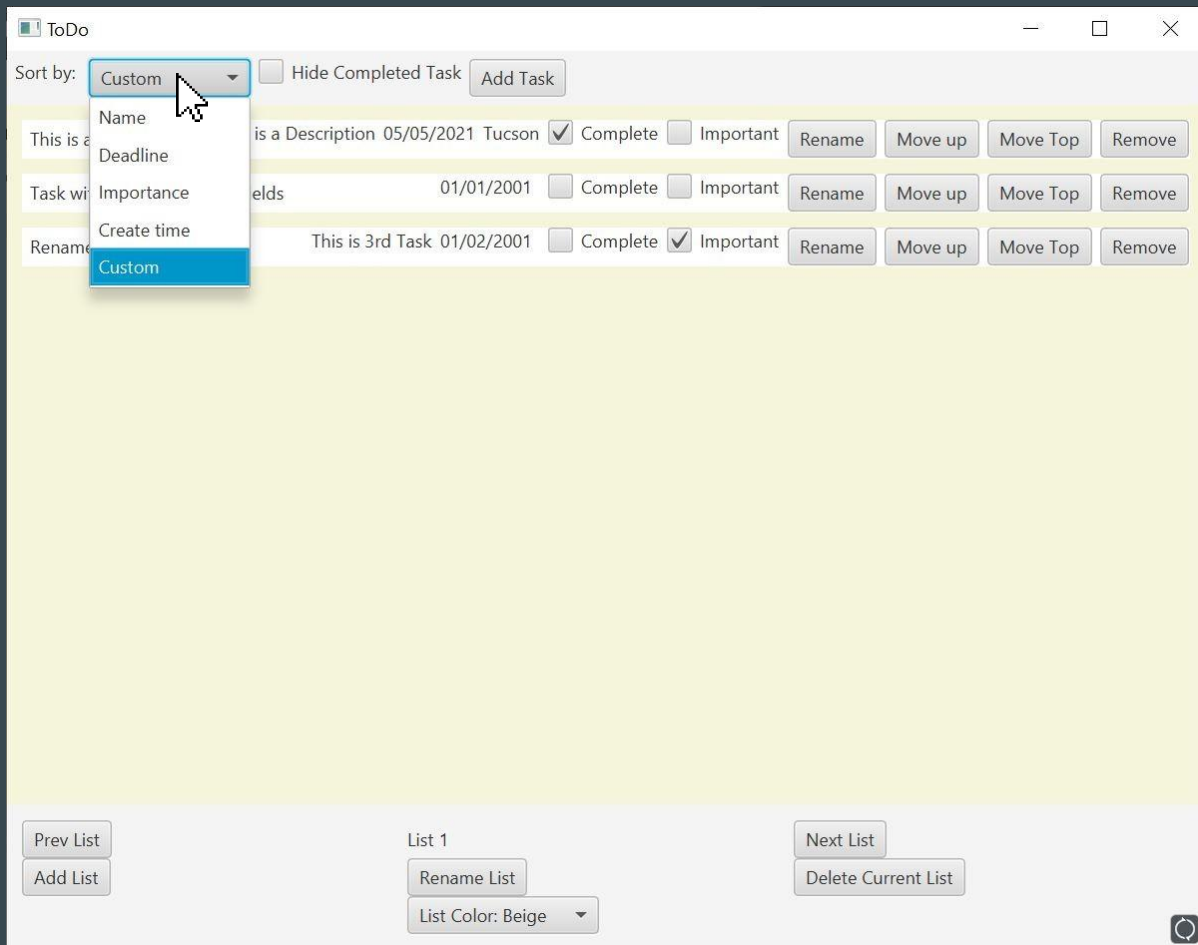


The screenshot shows the same "ToDo" application after the last task has been removed. The table now only contains three tasks. The "Remove" button for the last task is no longer present.

Name	Description	Date	Location	Complete	Important	Actions
This is a Name	This is a Description	05/05/2021	Tucson	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rename Move up Move Top Remove
Task with only Mandatory Fields		01/01/2001		<input type="checkbox"/>	<input type="checkbox"/>	Rename Move up Move Top Remove
Renamed Task	This is 3rd Task	01/02/2001		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rename Move up Move Top Remove

Sorting

- Tasks can be sorted through the sorting drop down menu.
- 5 Ways to Sort: Name, Deadline, Importance, Create time, Custom
- Any new task added will be automatically sorted by the current sorting option.



Sorting by Name

- Will sort the tasks alphabetically by their Name
- If you rename a task while sorting by Name the task will also be automatically sorted by Name.

ToDo

Sort by: Name

☐ Hide Completed Task

Add Task

Rename Task

This is 3rd Task

01/02/2001

☐ Complete

☒ Important

Rename

Move up

Move Top

Remove

Task with only Mandatory Fields

01/01/2001

☐ Complete

☐ Important

Rename

Move up

Move Top

Remove

This is a Name

This is a Description

05/05/2021

Tucson

☒ Complete

☐ Important

Rename

Move up

Move Top

Remove

Prev List

Add List

List 1

Rename List

List Color: Beige

Next List

Delete Current List

Sorting by Deadline

- Will sort the tasks by their Deadlines. The earlier a Deadline is the higher it will be on the list.
- Useful for users to see what task has to be done the soonest.

The screenshot shows a 'ToDo' application window with a light gray header and a yellow task list area. The header contains a 'Sort by:' dropdown menu set to 'Deadline', a 'Hide Completed Task' checkbox, and an 'Add Task' button. The task list contains three items, each with a name, description, deadline, completion status, importance, and action buttons. The tasks are sorted by their deadlines: 'Task with only Mandatory Fields' (01/01/2001), 'Renamed Task' (01/02/2001), and 'This is a Name' (05/05/2021). The bottom of the window features a 'List 1' section with buttons for 'Prev List', 'Add List', 'Rename List', 'List Color: Beige' (with a dropdown arrow), 'Next List', and 'Delete Current List'. A small circular icon is in the bottom right corner.

Task Name	Description	Deadline	Complete	Important	Actions
Task with only Mandatory Fields		01/01/2001	<input type="checkbox"/>	<input type="checkbox"/>	Rename Move up Move Top Remove
Renamed Task	This is 3rd Task	01/02/2001	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rename Move up Move Top Remove
This is a Name	This is a Description Tucson	05/05/2021	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rename Move up Move Top Remove

Sorting by Importance

- Will sort the tasks so that all Tasks marked Important will be at the top of list.
- Easy way for users to see their most important tasks.

The screenshot shows a 'ToDo' application window with a title bar containing a green icon, the text 'ToDo', and standard window controls. The main interface has a header bar with a 'Sort by:' dropdown menu set to 'Importance', a 'Hide Completed Task' checkbox, and an 'Add Task' button. Below this is a list of three tasks, each with a text input field, a date, a 'Complete' checkbox, an 'Important' checkbox, and four action buttons: 'Rename', 'Move up', 'Move Top', and 'Remove'. The tasks are sorted by importance, with the most important task at the top.

Task Name	Date	Complete	Important	Actions
Renamed Task	This is 3rd Task 01/02/2001	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rename Move up Move Top Remove
Task with only Mandatory Fields	01/01/2001	<input type="checkbox"/>	<input type="checkbox"/>	Rename Move up Move Top Remove
This is a Name	This is a Description 05/05/2021 Tucson	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rename Move up Move Top Remove

At the bottom of the window, there is a section for list management. It includes a 'Prev List' button, an 'Add List' button, a 'List 1' label, a 'Rename List' button, a 'List Color: Beige' dropdown menu, a 'Next List' button, and a 'Delete Current List' button. A small circular icon is located in the bottom right corner.

Sorting By Create Time

- Will sort the tasks by their creation time. The earlier they were created the higher on the list they will be.

ToDo

Sort by: Create time

☐ Hide Completed Task

Add Task

This is a Name	This is a Description	05/05/2021	Tucson	<input checked="" type="checkbox"/> Complete	<input type="checkbox"/> Important	Rename	Move up	Move Top	Remove
Task with only Mandatory Fields		01/01/2001		<input type="checkbox"/> Complete	<input type="checkbox"/> Important	Rename	Move up	Move Top	Remove
Renamed Task	This is 3rd Task	01/02/2001		<input type="checkbox"/> Complete	<input checked="" type="checkbox"/> Important	Rename	Move up	Move Top	Remove

Prev List

Add List

List 1

Rename List

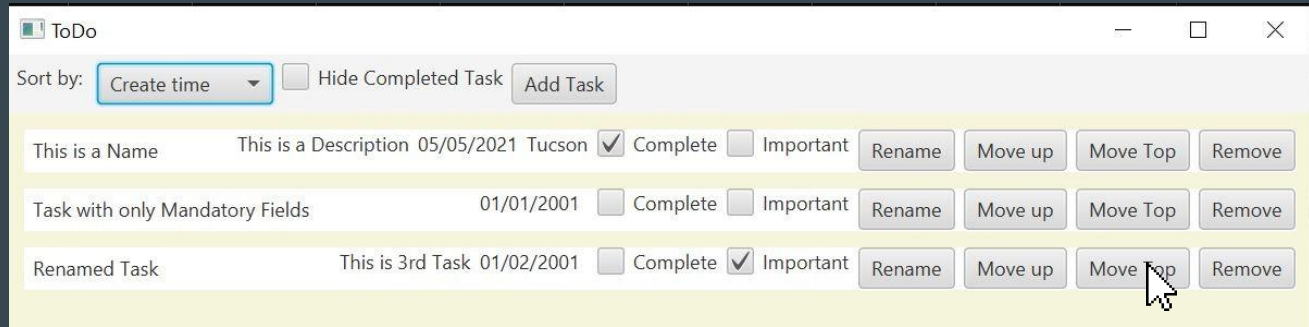
List Color: Beige

Next List

Delete Current List

Sorting By Custom

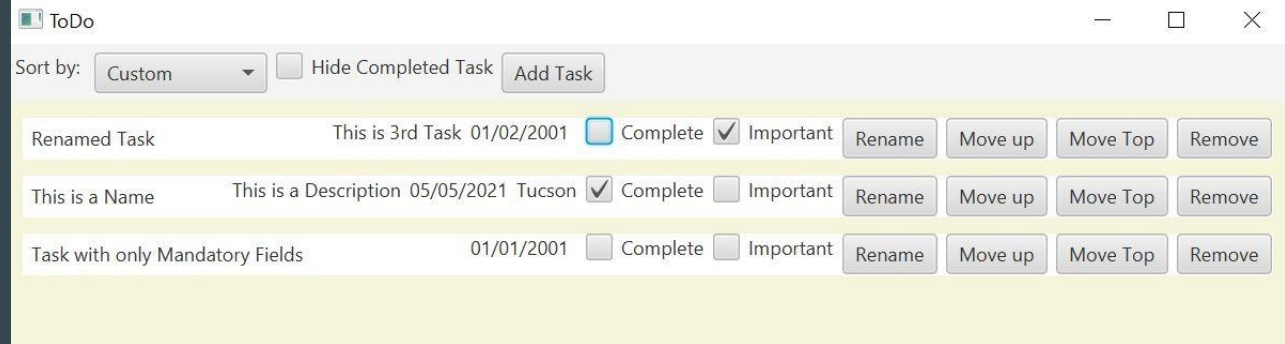
- When you click a move up or move top button the custom sort option will be picked. This allows users to manually sort their ToDo List.
- Move up makes the task go up spot.
- Move Top makes the task go all the way to the top.



ToDo

Sort by: Create time ☐ Hide Completed Task Add Task

This is a Name	This is a Description	05/05/2021	Tucson	<input checked="" type="checkbox"/> Complete	<input type="checkbox"/> Important	Rename	Move up	Move Top	Remove
Task with only Mandatory Fields		01/01/2001		<input type="checkbox"/> Complete	<input type="checkbox"/> Important	Rename	Move up	Move Top	Remove
Renamed Task	This is 3rd Task	01/02/2001		<input type="checkbox"/> Complete	<input checked="" type="checkbox"/> Important	Rename	Move up	Move Top	Remove



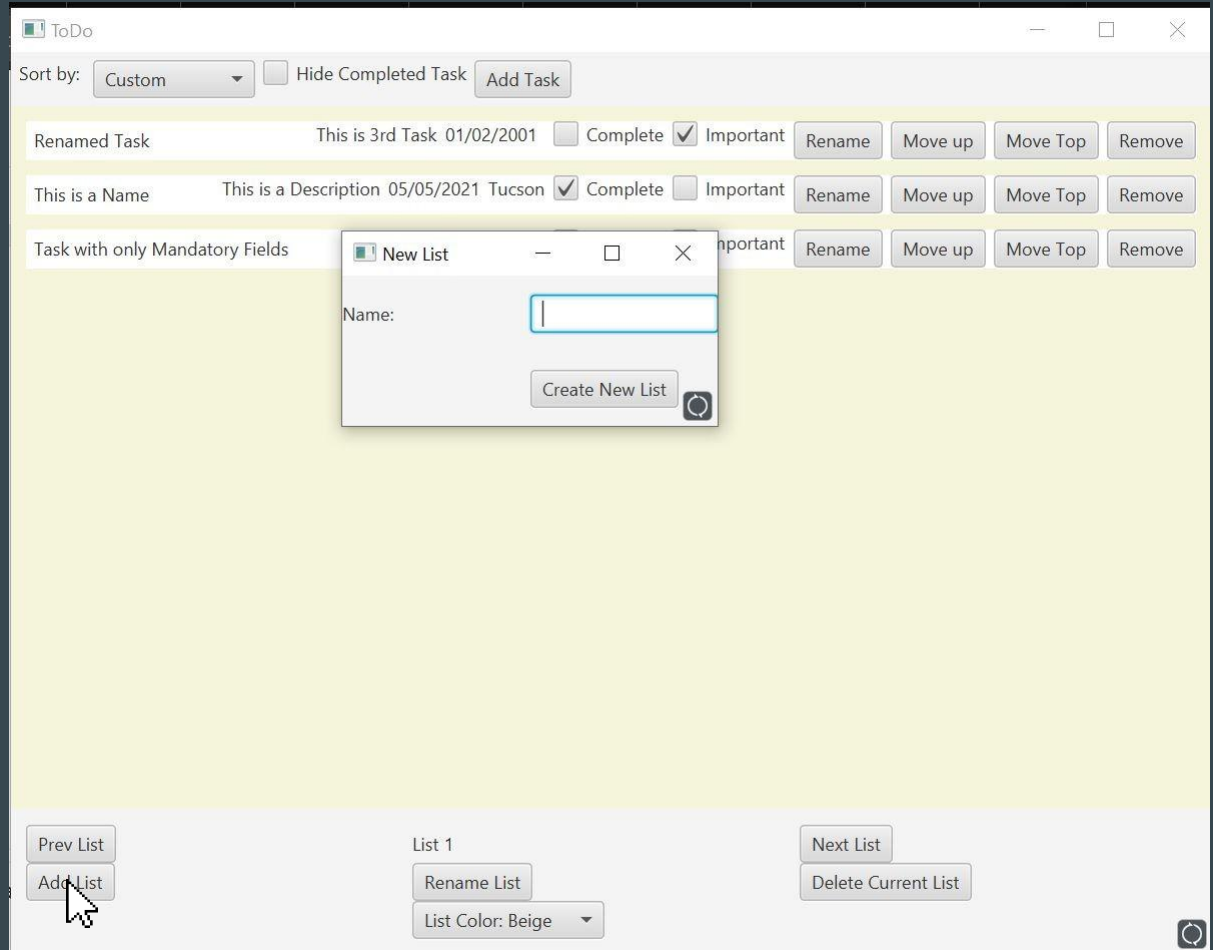
ToDo

Sort by: Custom ☐ Hide Completed Task Add Task

Renamed Task	This is 3rd Task	01/02/2001	<input checked="" type="checkbox"/> Complete	<input checked="" type="checkbox"/> Important	Rename	Move up	Move Top	Remove	
This is a Name	This is a Description	05/05/2021	Tucson	<input checked="" type="checkbox"/> Complete	<input type="checkbox"/> Important	Rename	Move up	Move Top	Remove
Task with only Mandatory Fields		01/01/2001		<input type="checkbox"/> Complete	<input type="checkbox"/> Important	Rename	Move up	Move Top	Remove

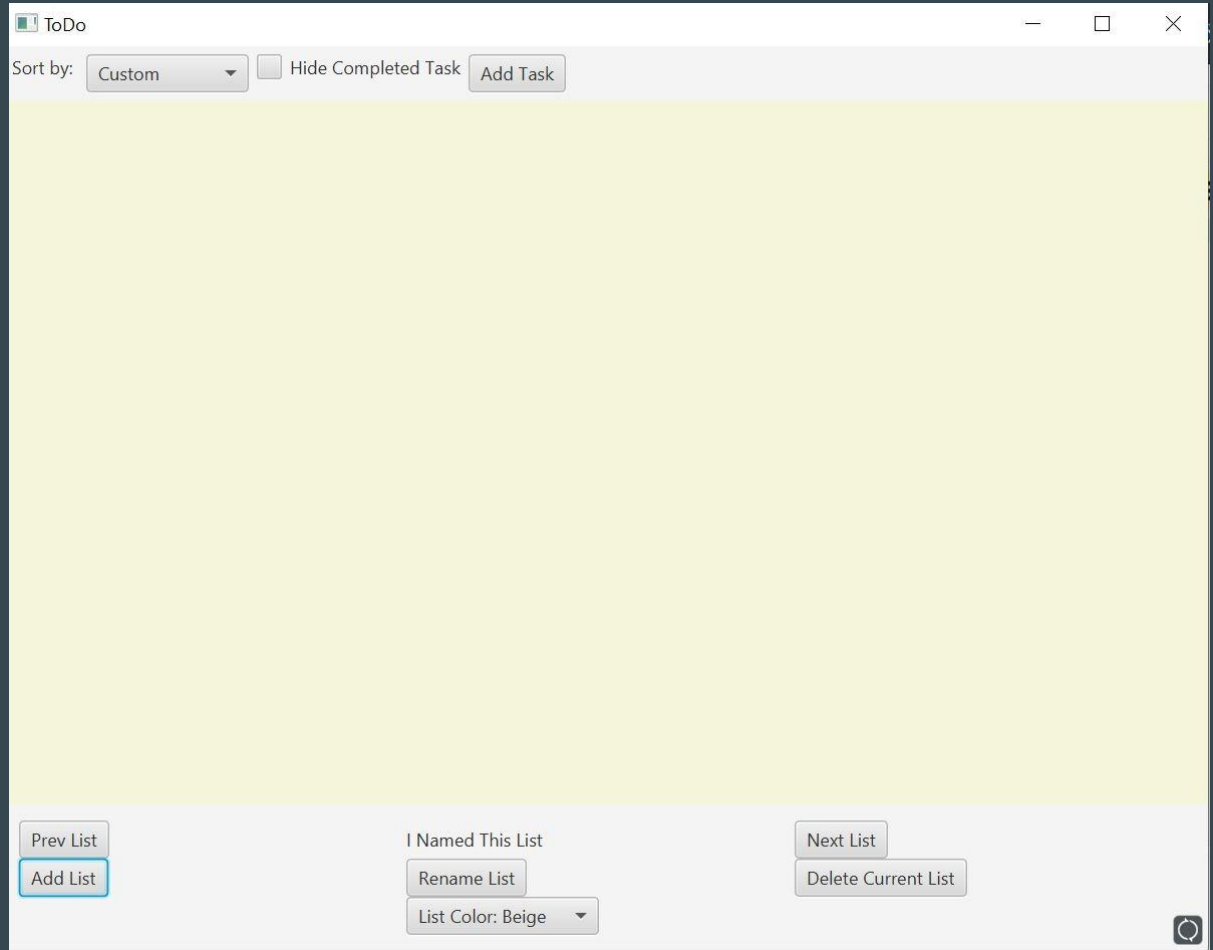
Multiple Lists

- On Startup without a save only 1list is created more lists can be created through the Add List button.
- A window will pop out allowing the user to name the new list being created.



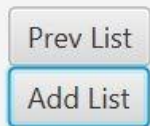
Multiple Lists

- User will then be taken to the new list which will have no tasks yet.
- Of course any new created list has the same functionality as the first list.
- The user can create as many lists as they want.

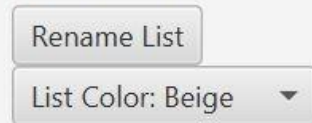


Traversing Multiple Lists

- Lists are stored in the order they were created. The lists that were created first are behind the newly created list while any more lists created after the current list is found in front of the current list.
- The Next List button will take the user to lists created after the current list. Unless the current list is the most recently created list, in which case the Next List button will take the user to the oldest list.
- The Prev List button will take the user to lists created before the current list. Unless the current list is the oldest created list, in which case the Prev List button will take the user to the newest list.



Another List

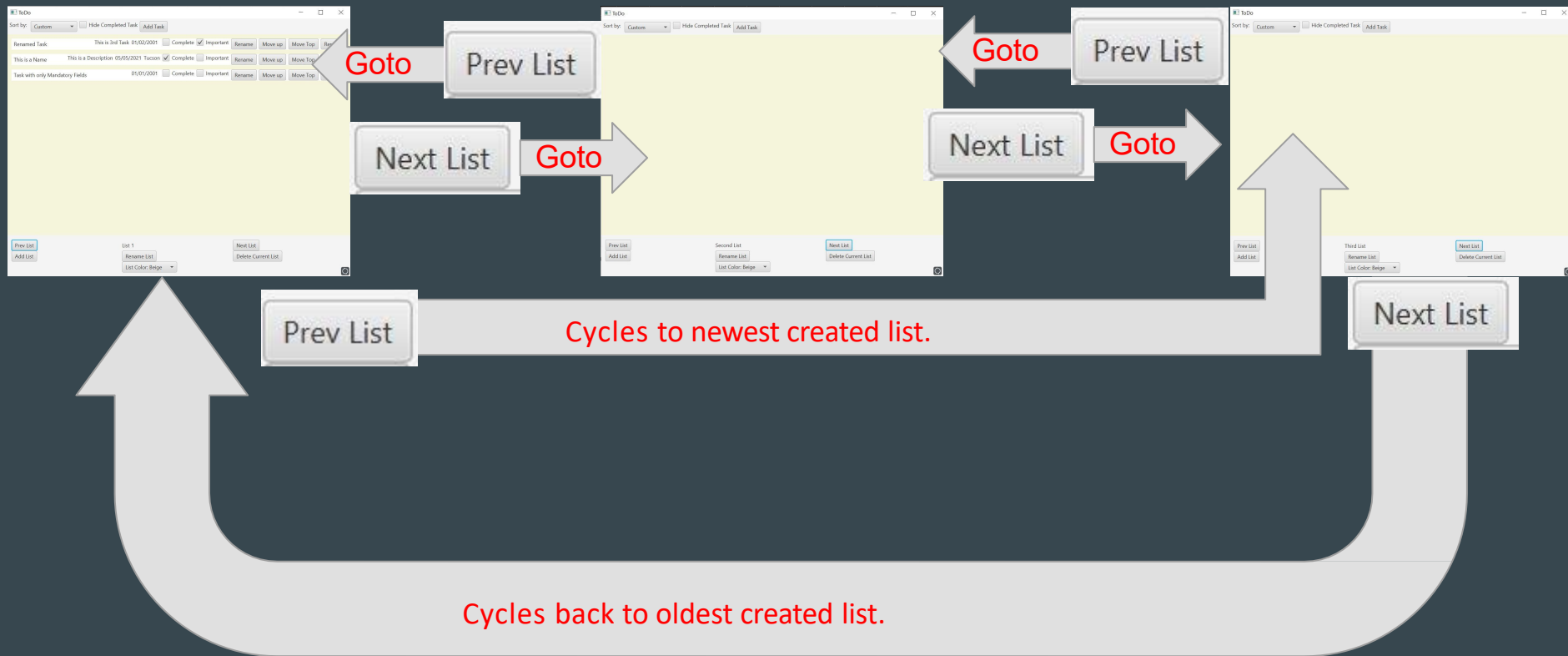


Visual Representation of How Multiple List is Traversed

List 1 (Oldest List)

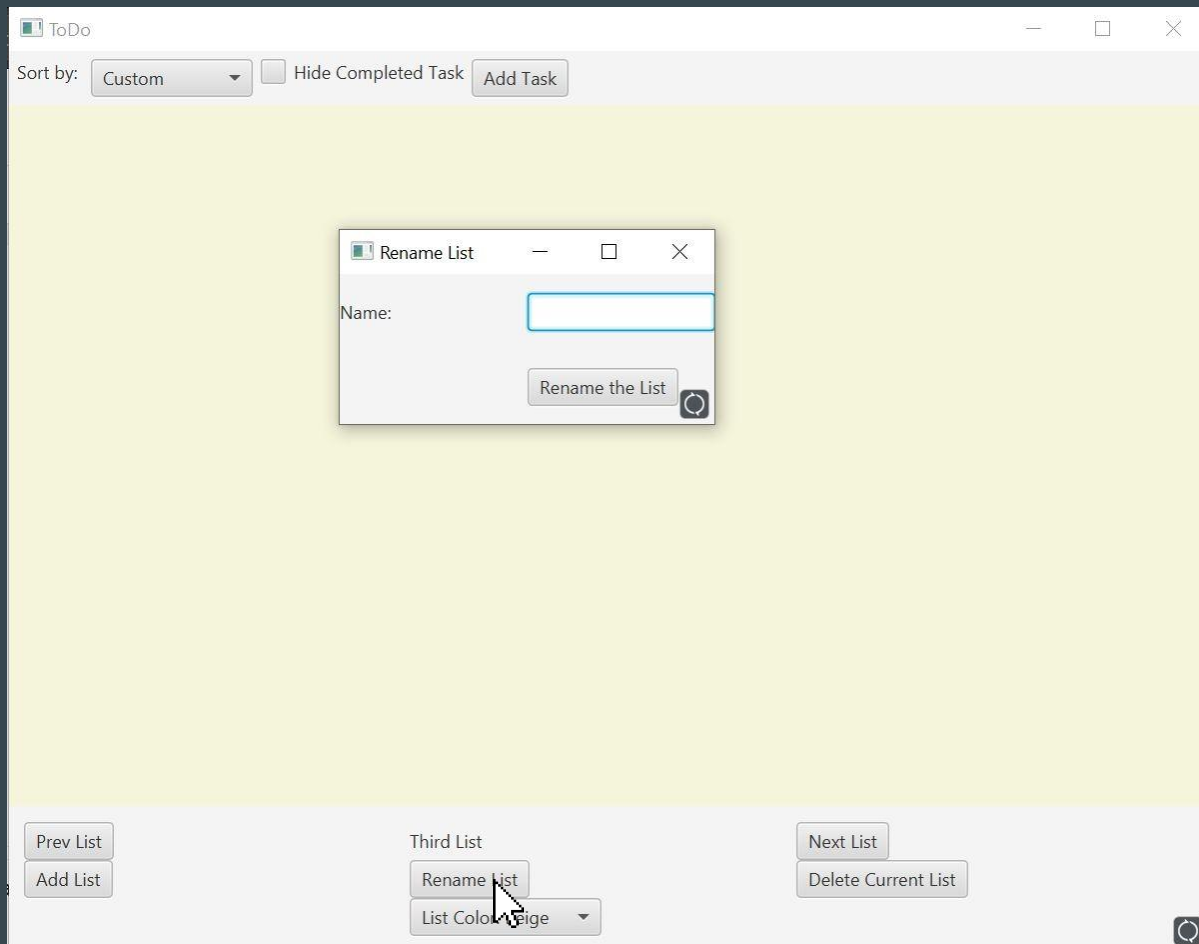
Second List

Third List (Earliest List)



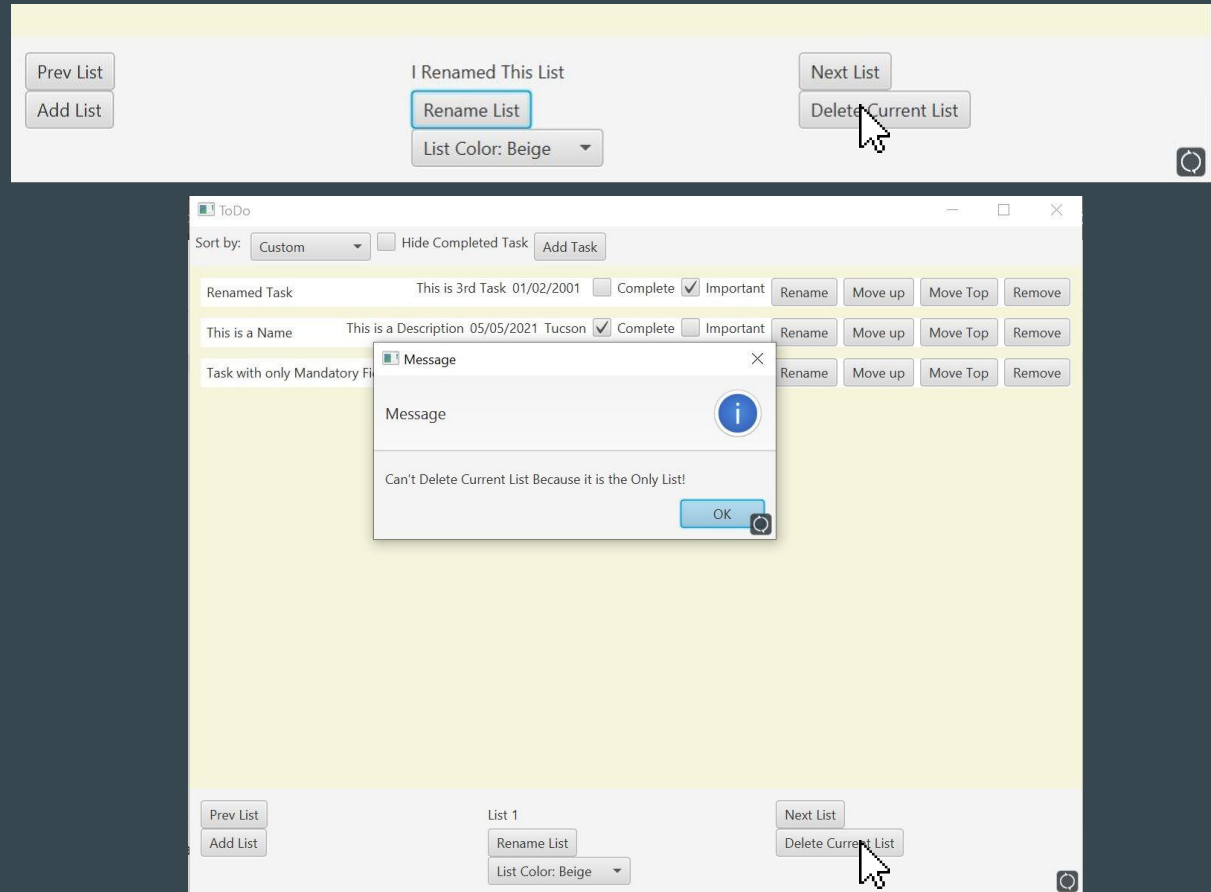
Renaming Lists

- Clicking the Rename List button allows the user to rename the current list.



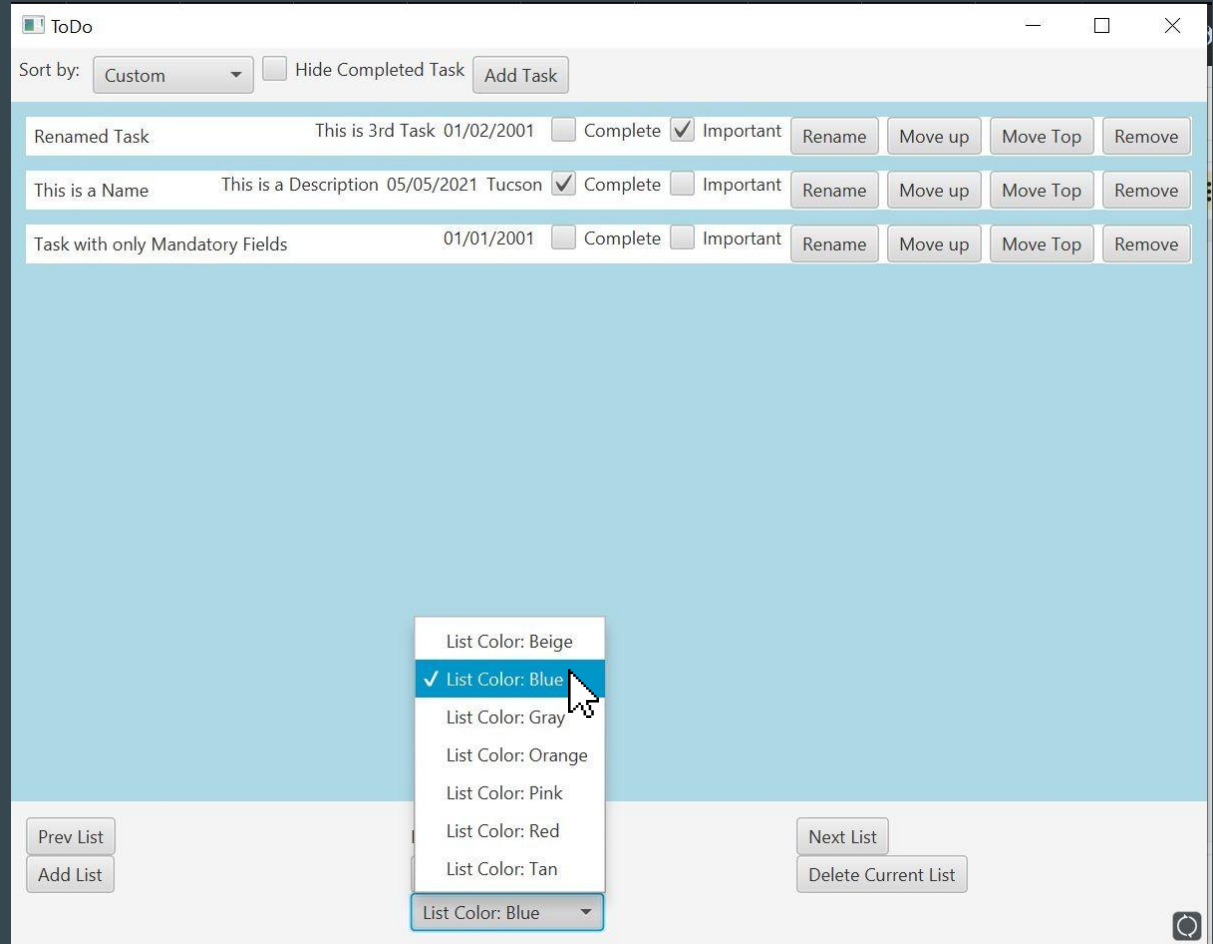
Deleting Lists

- By clicking the Delete Current List button the current list will be deleted and the user will be taken to another list.
- If the user attempts to delete the only list the user currently has a window will pop up informing the user they can't do that to prevent the user from breaking the program.



WowFactor: Changing Color

- User can change color of any list from a list of 7 choices: Beige, Blue, Gray, Orange, Pink, Red, Tan
- Colors chosen due to being pleasant to the eyes.
- Every list can have a different color.



Some of the Possible Colors

The image displays two side-by-side screenshots of a 'ToDo' application window, illustrating different color themes for the task lists.

Left Window (Dark Blue Theme):

- Sort by: Name
- Hide Completed Task: ☐
- Add Task: [button]
- Task List:
 - Apple | 01/01/2000 | ☐ Complete | ☐ Important | [Rename] [Move up] [Move Top] [Remove]
 - Bob | 01/01/2001 | ☐ Complete | ☒ Important | [Rename] [Move up] [Move Top] [Remove]
 - Cat | 01/02/2000 | ☐ Complete | ☐ Important | [Rename] [Move up] [Move Top] [Remove]
- Bottom Bar:
 - Prev List [button] | Add List [button]
 - Another List
 - Rename List [button]
 - List Color: Gray [dropdown]
 - Next List [button] | Delete Current List [button]

Right Window (Pink Theme):

- Sort by: Custom
- Hide Completed Task: ☐
- Add Task: [button]
- Task List: (Empty)
- Bottom Bar:
 - Prev List [button] | Add List [button]
 - New List
 - Rename List [button]
 - List Color: Pink [dropdown]
 - Next List [button] | Delete Current List [button]

More colors possible than displayed here.

Saving and Loading

- All lists and tasks that the user has created will be saved automatically whenever the application is closed in the file `save.dat`
 - Everything about the list and task is saved from the current sorting to the color of the list.
- When the application launches it will search for a `save.dat` file. If no file is found then the application will start with just 1empty list.
- If a file is found then the application will load it and open the application to the list that was last viewed.
- User can then continue using the list.

The End

That covers all the features of the
ToDo list application.