# ToDo List

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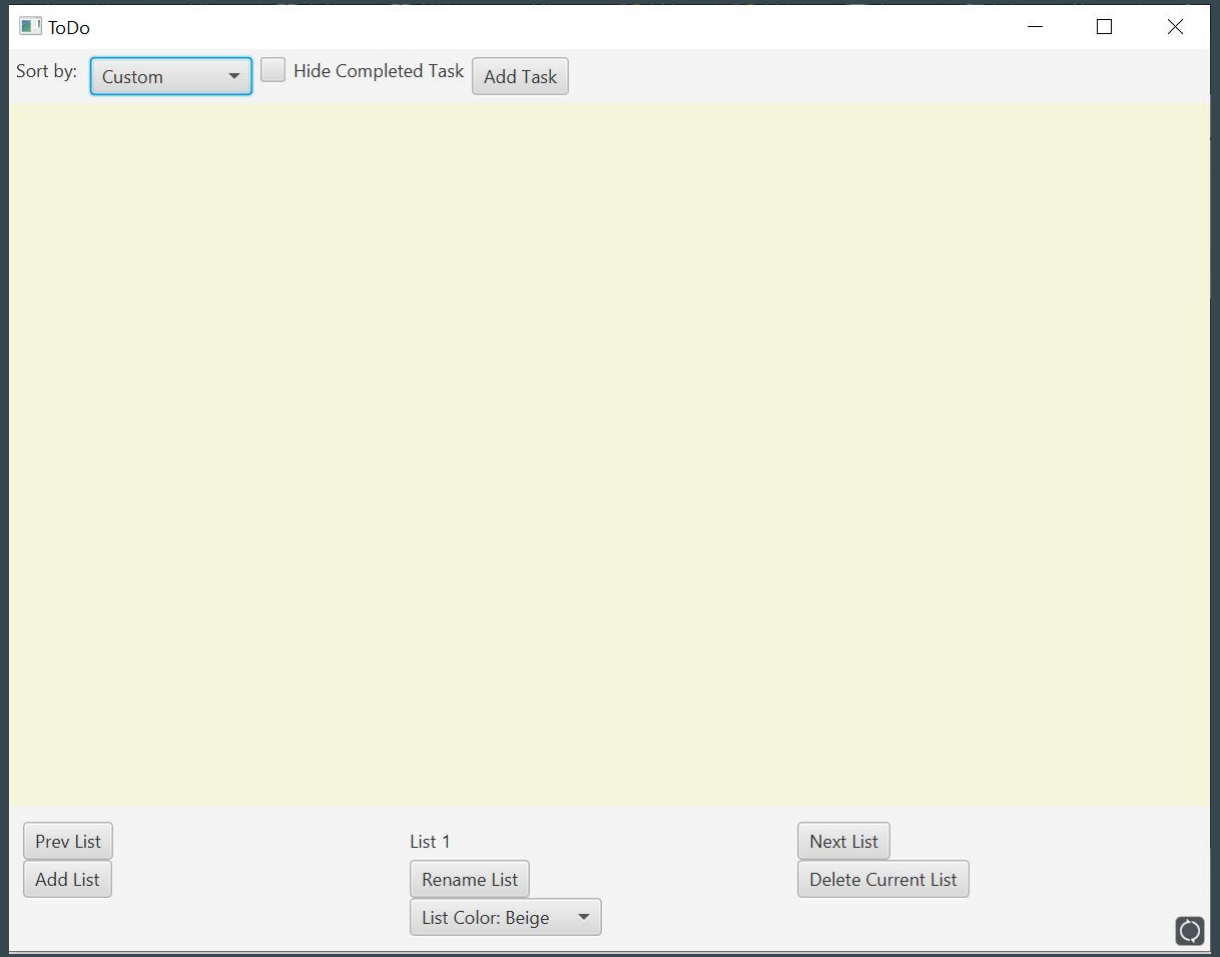
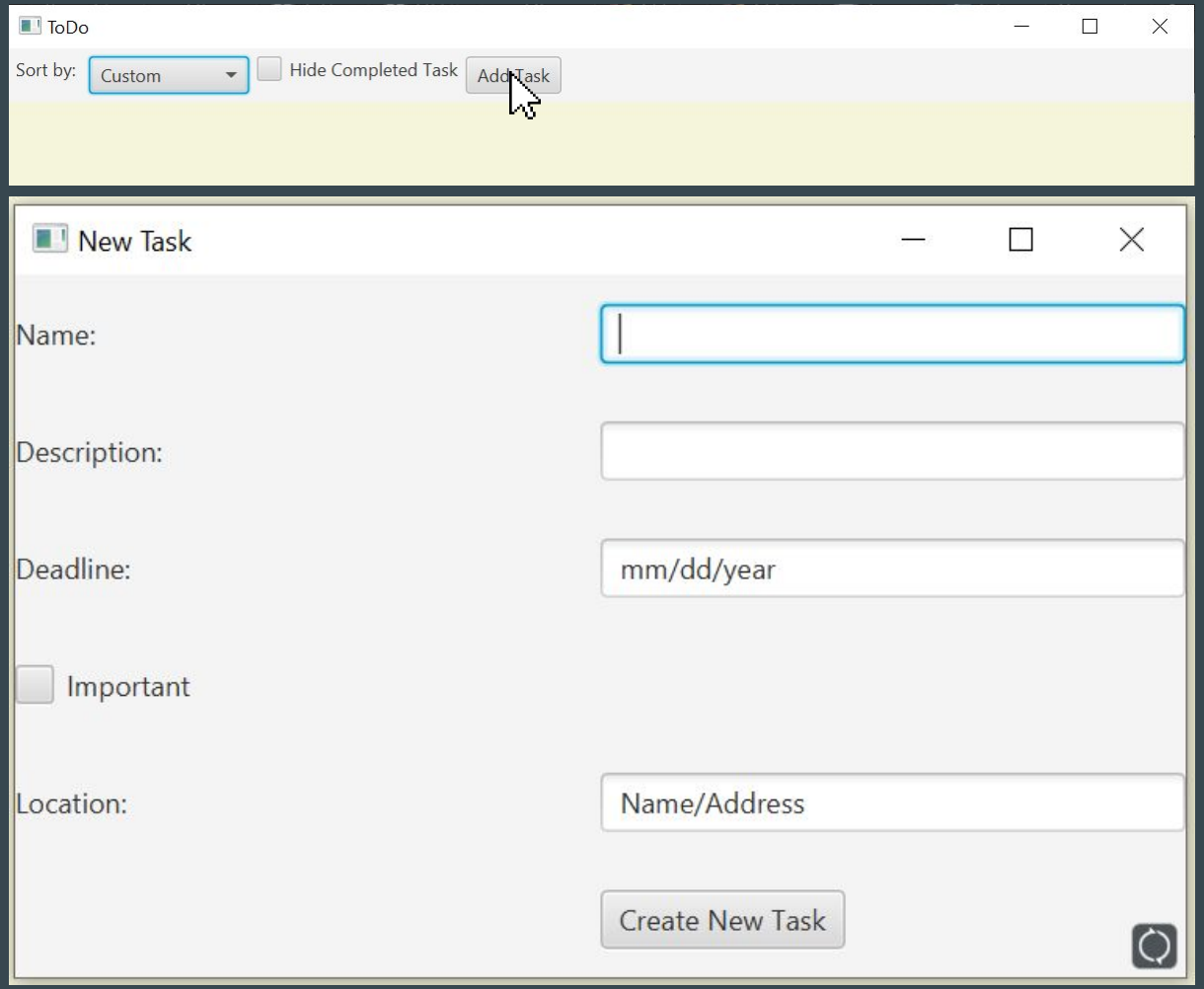
# Startup with No Save

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



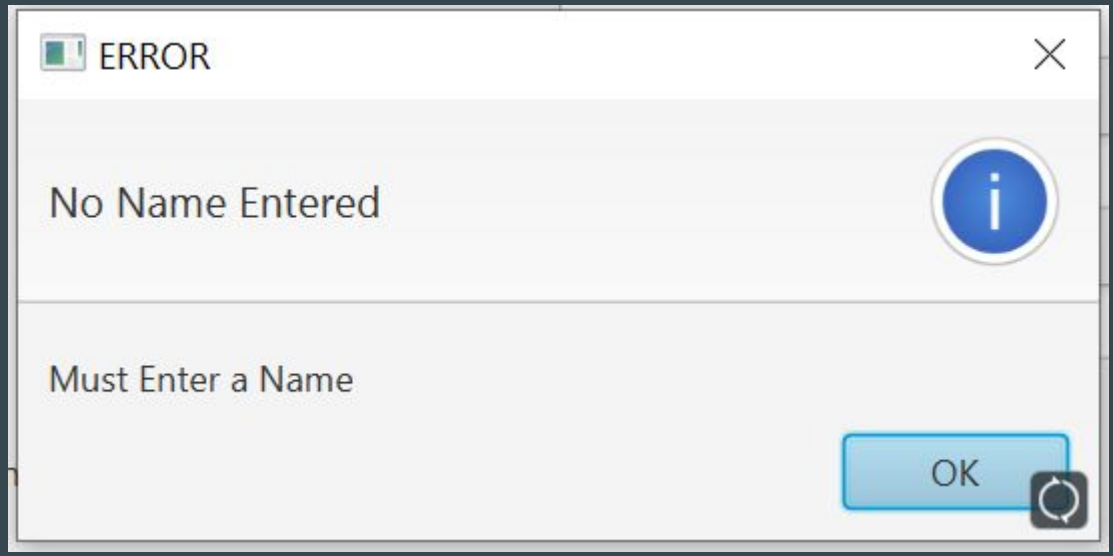
# Adding Tasks

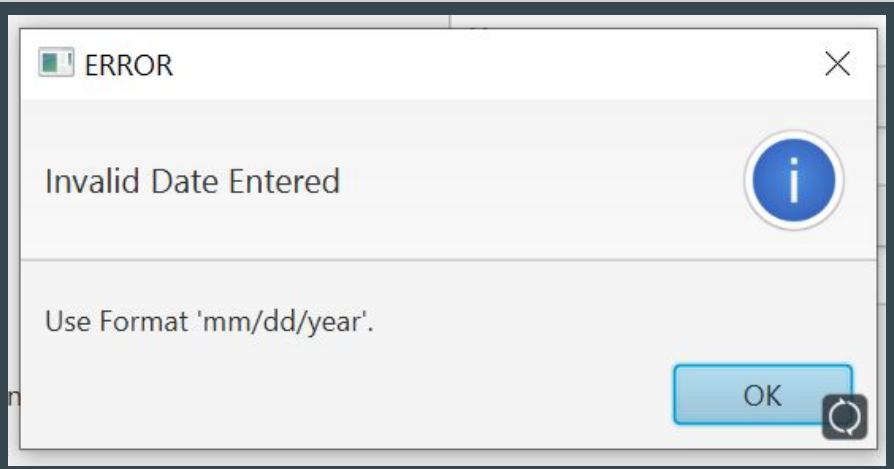
- Clicking the Add Task button at the top of the window will open a new window for the user to input info about the task they are adding to the list.



# Adding Tasks

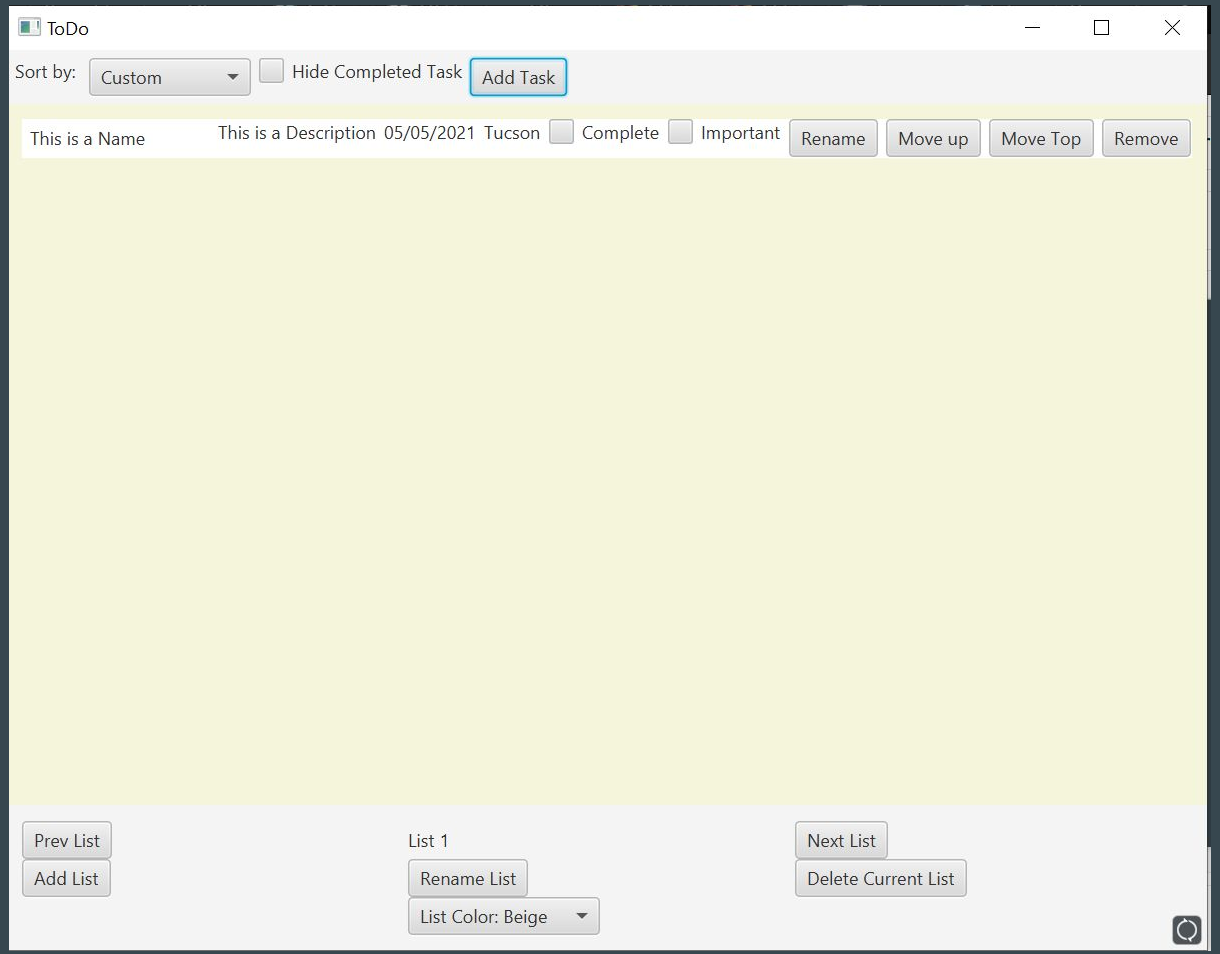
- Name and Deadline are mandatory for all tasks because it doesn't make too much sense for a task on a ToDoList to not have those things.
- A window will pop up informing users about the mandatory Name and Deadline if they attempt to create a task without either of those fields.



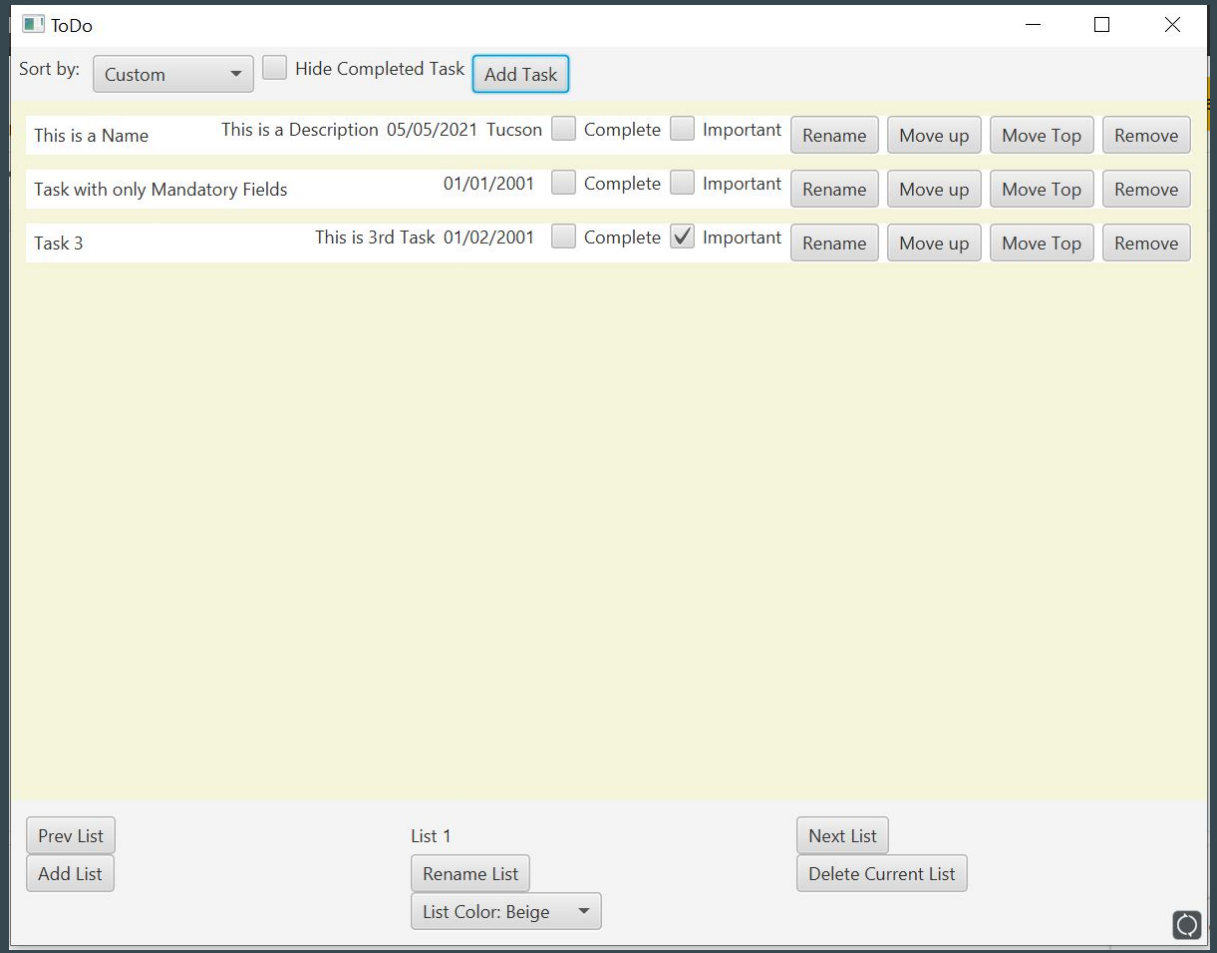
# Adding Tasks

- 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.



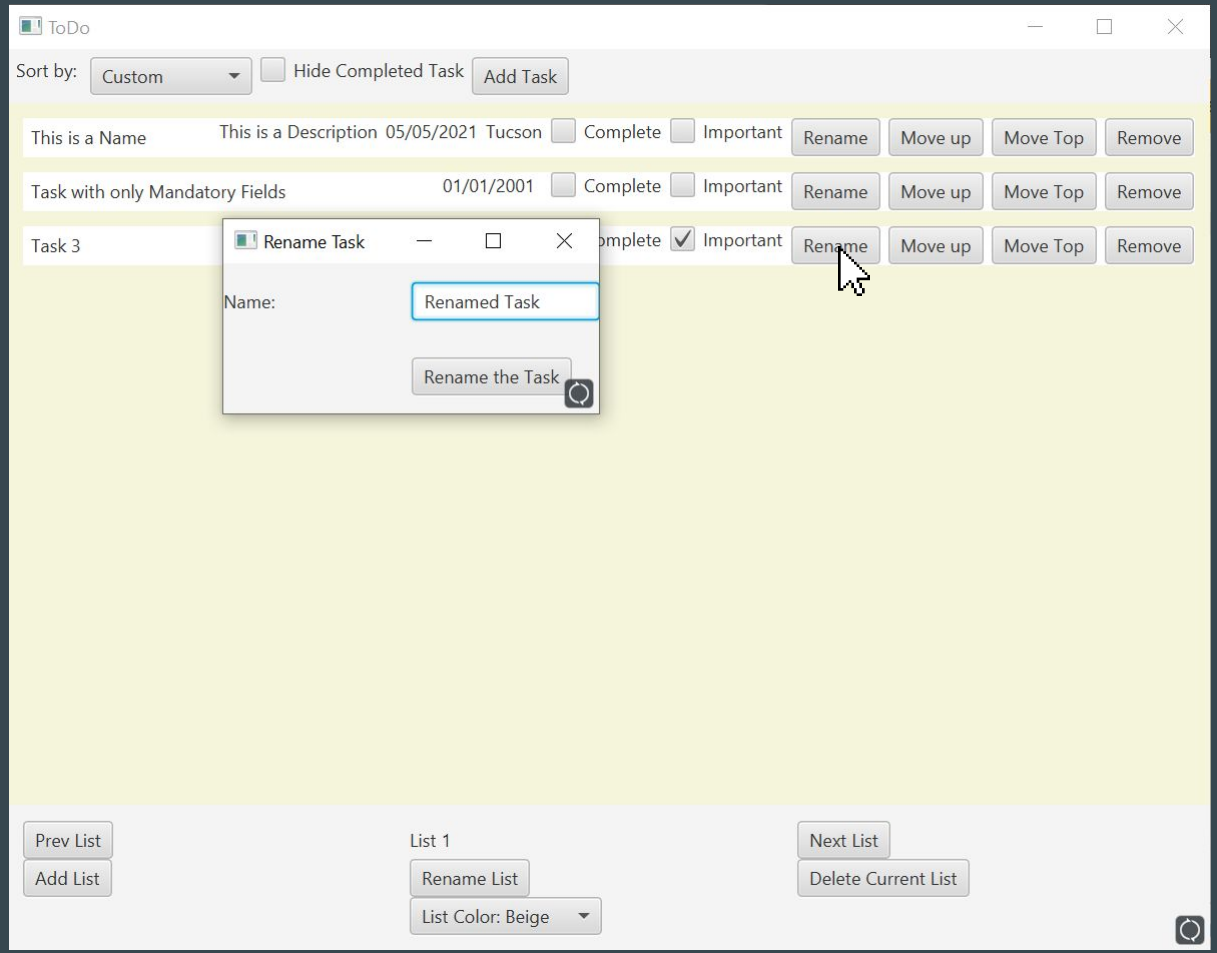
# Adding Tasks

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



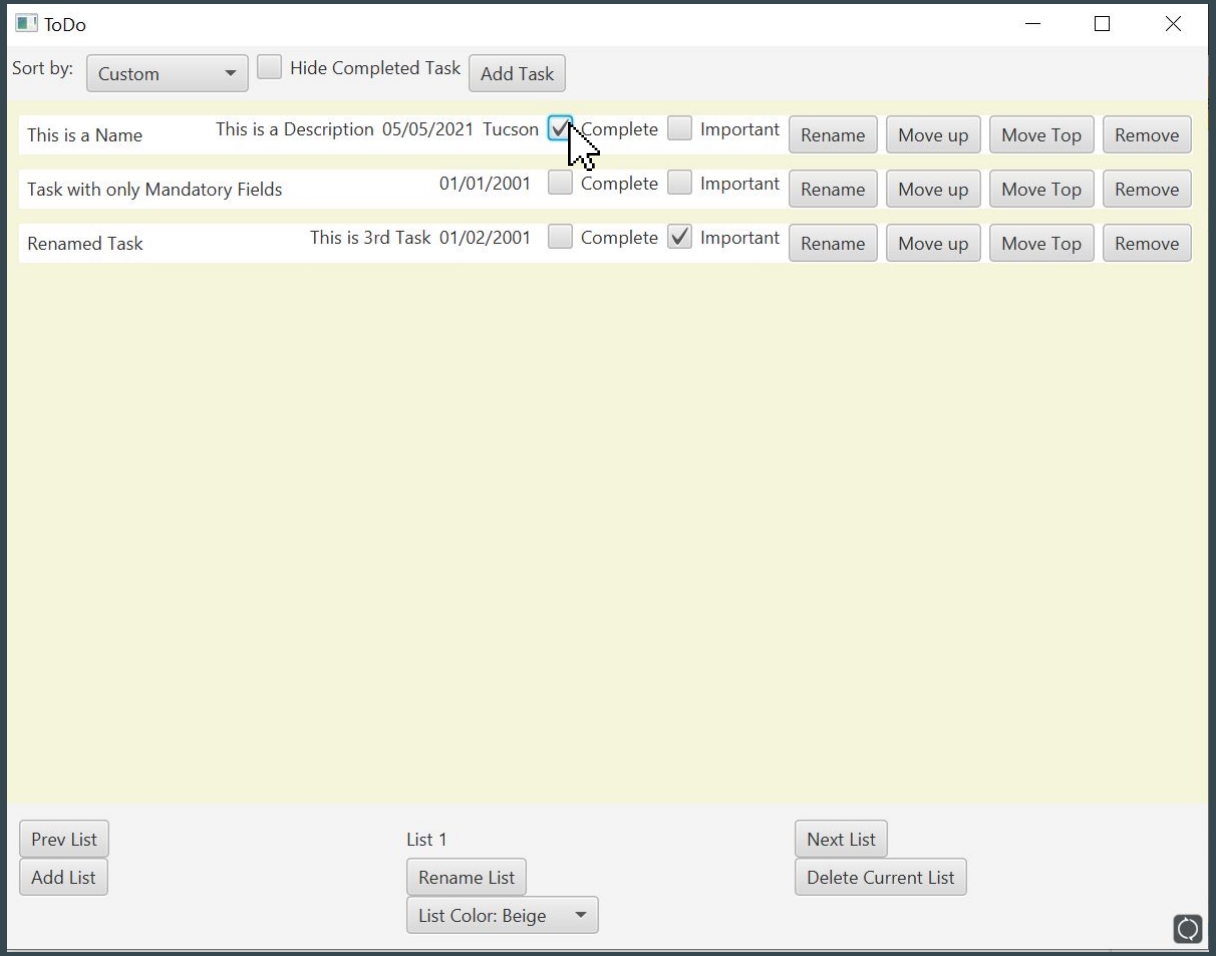
# Rename Task

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



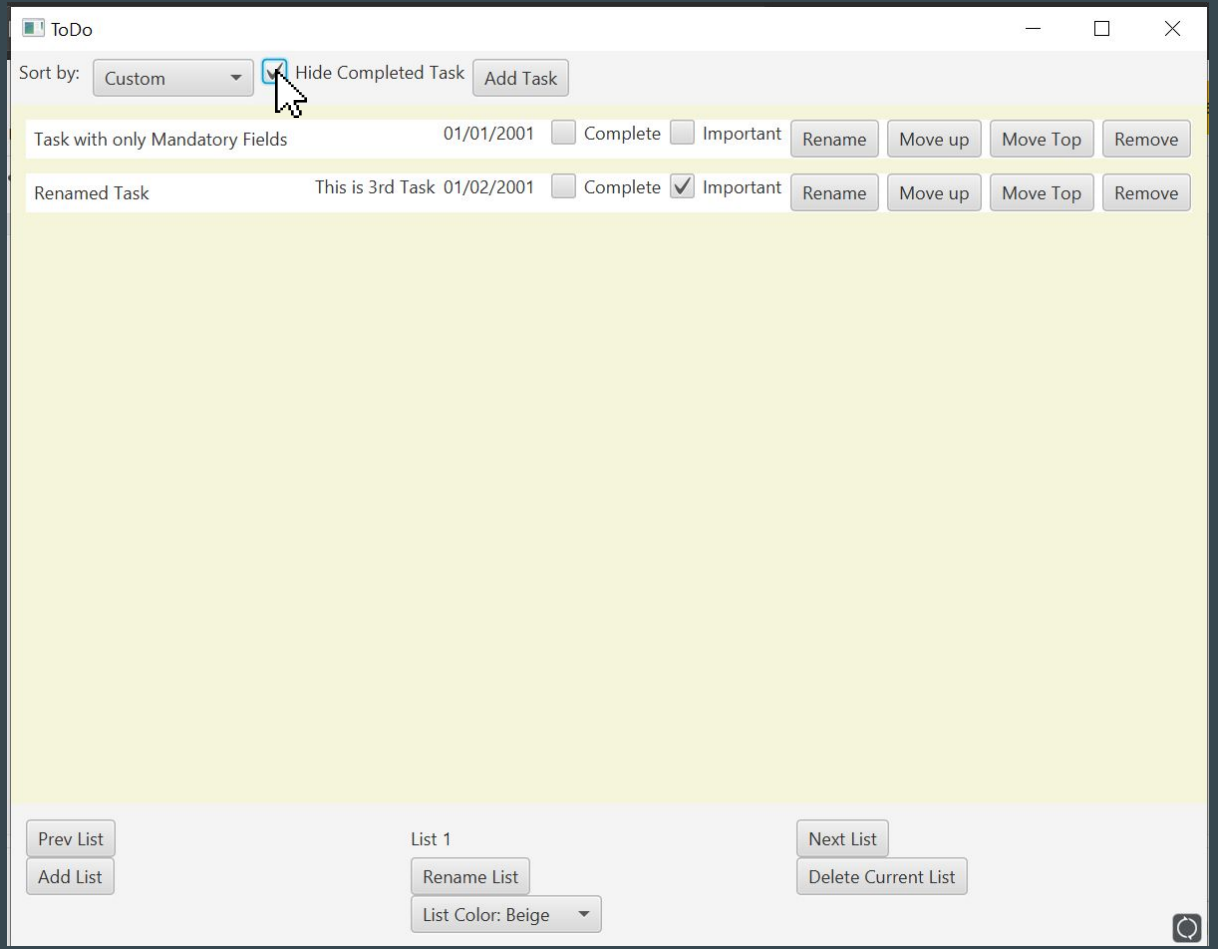
# Marking Completed Tasks

- 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.



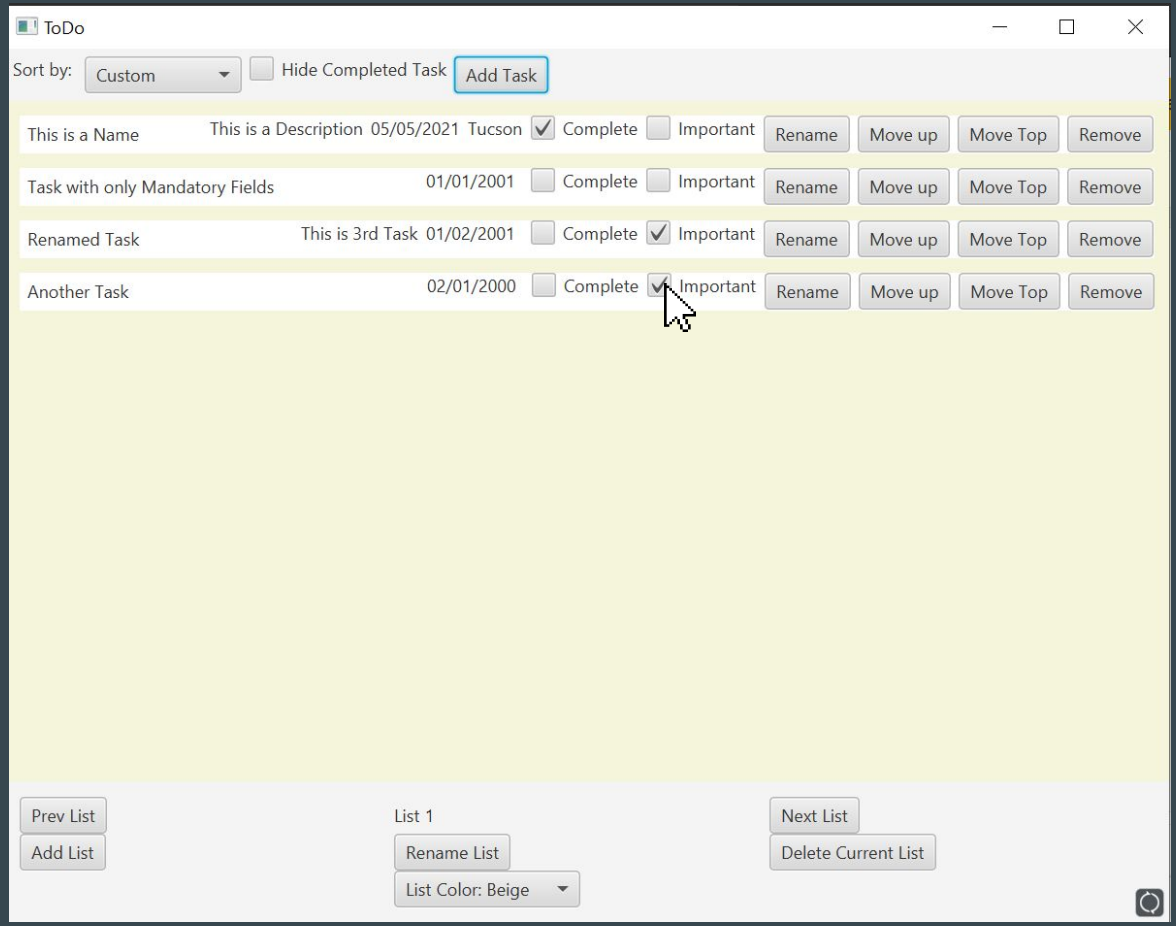
# Hiding Completed Tasks

- 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.



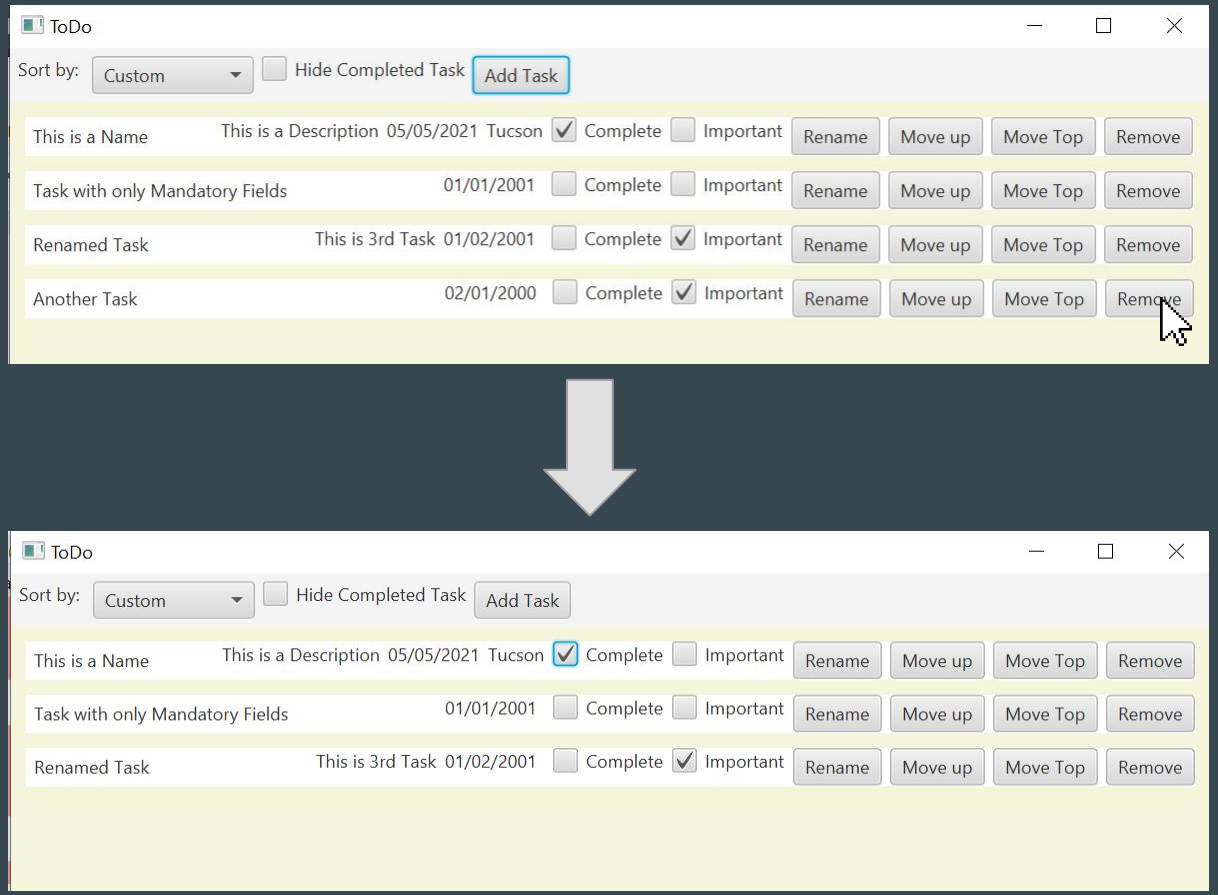
# Marking Important Tasks

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



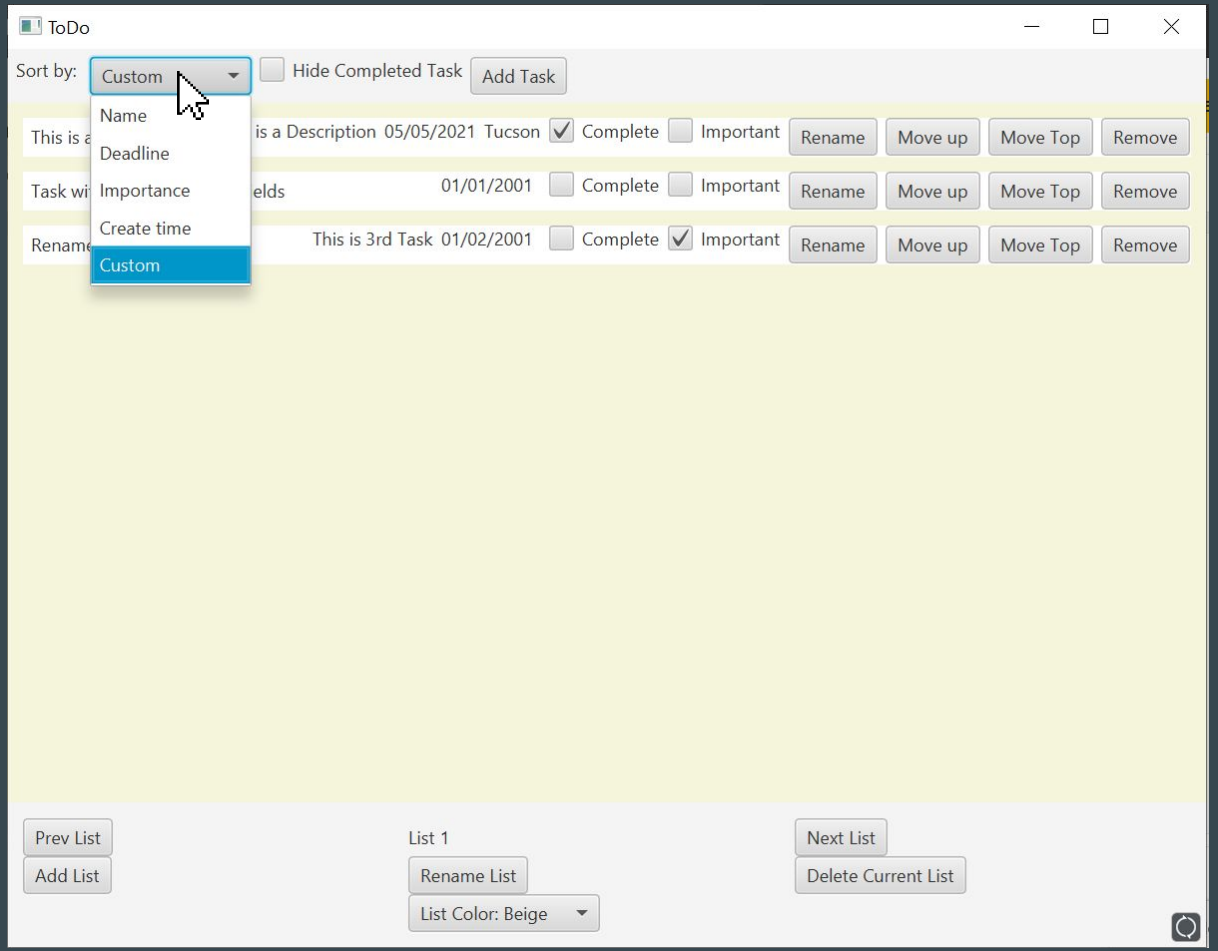
# Removing Tasks

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



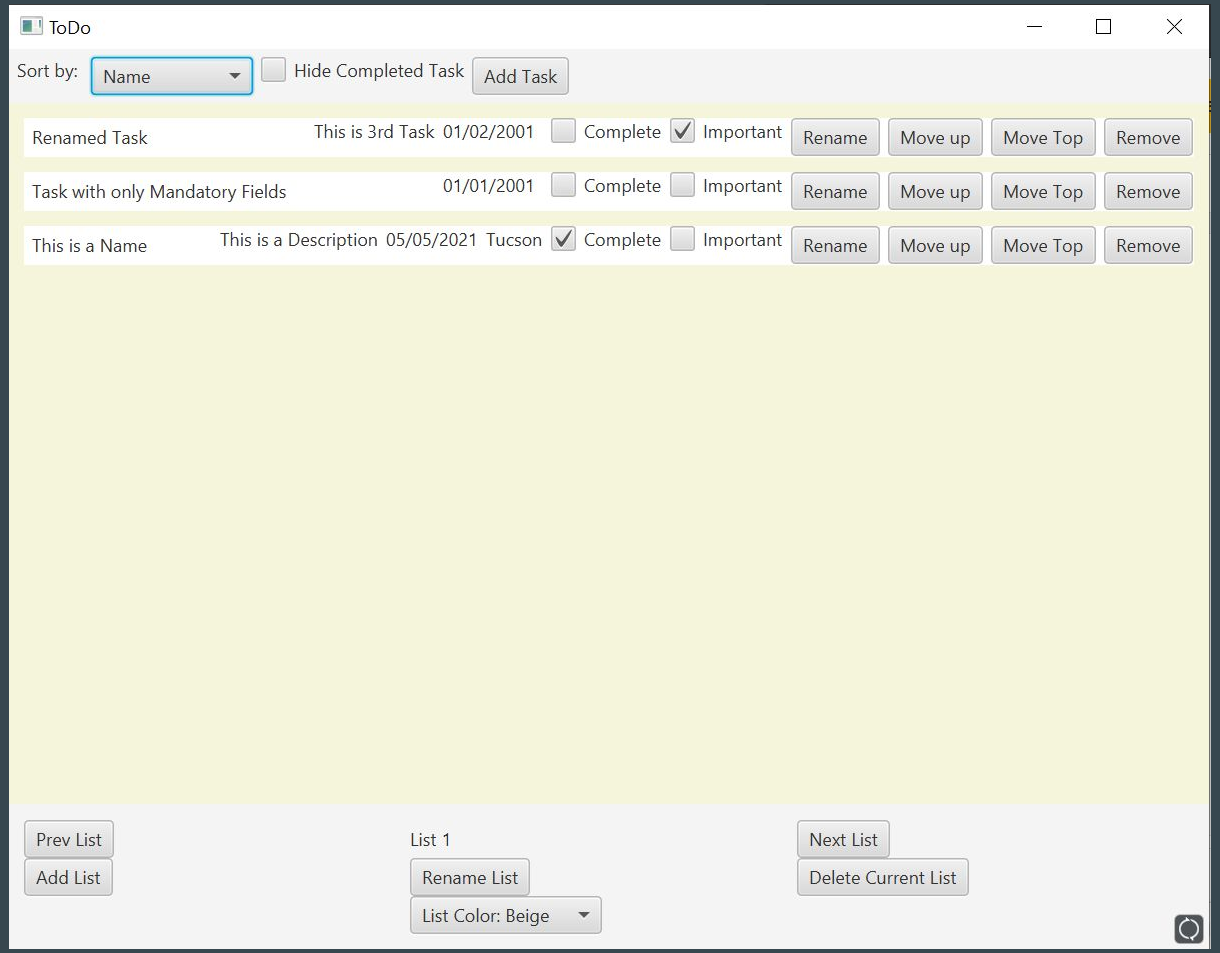
# Sorting

- 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.



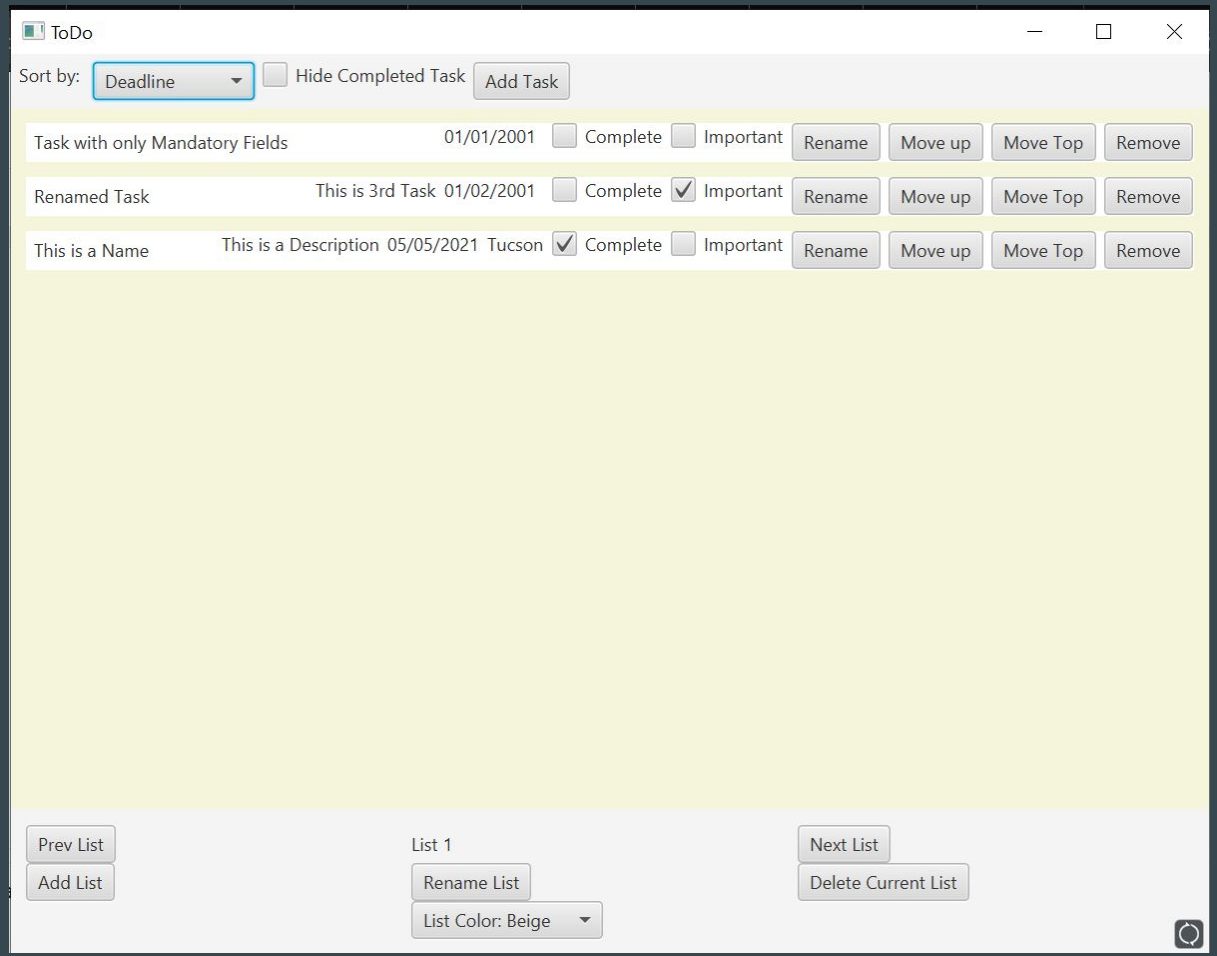
# Sorting by Name

- 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.



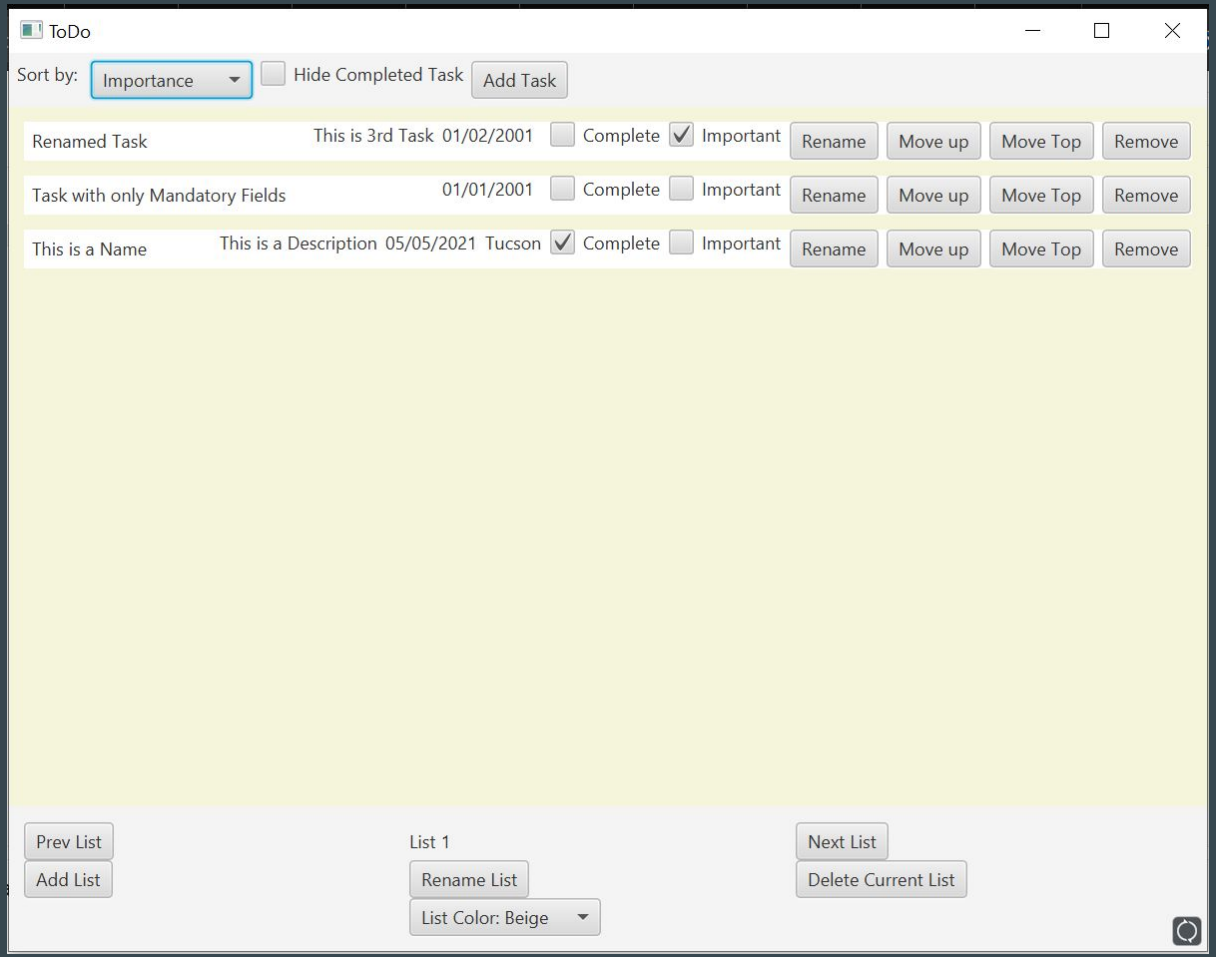
# Sorting by Deadline

- 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.



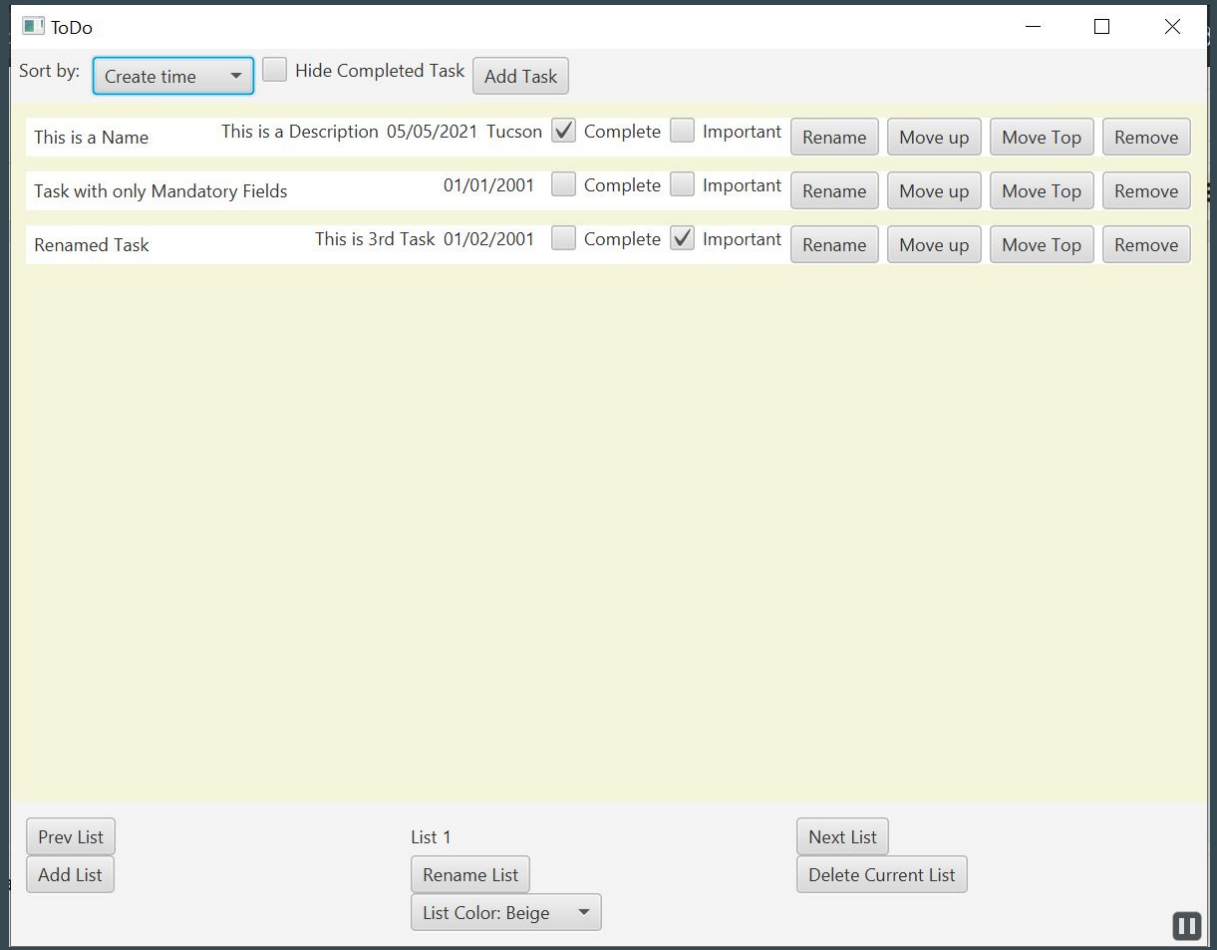
# Sorting by Importance

- 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.



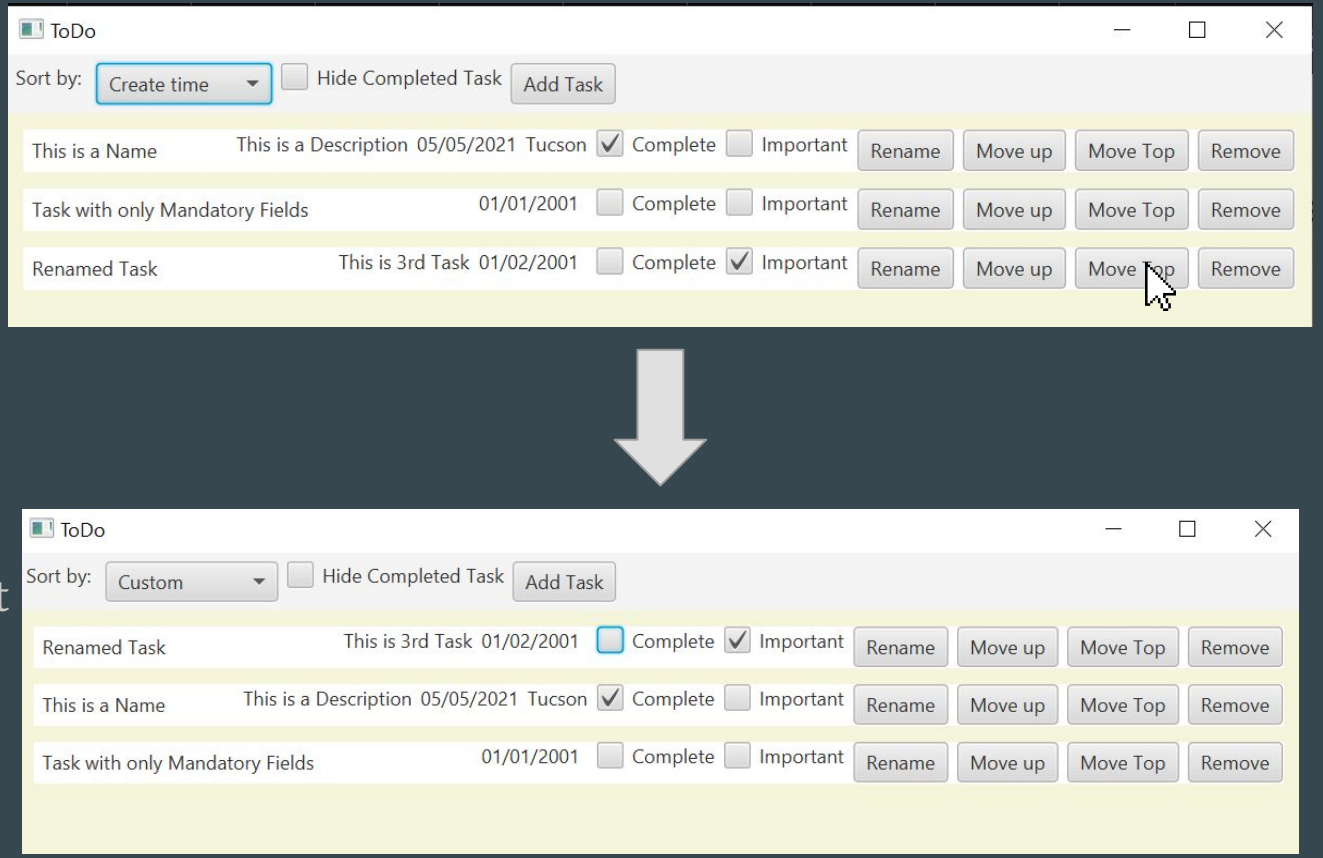
# Sorting By Create Time

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



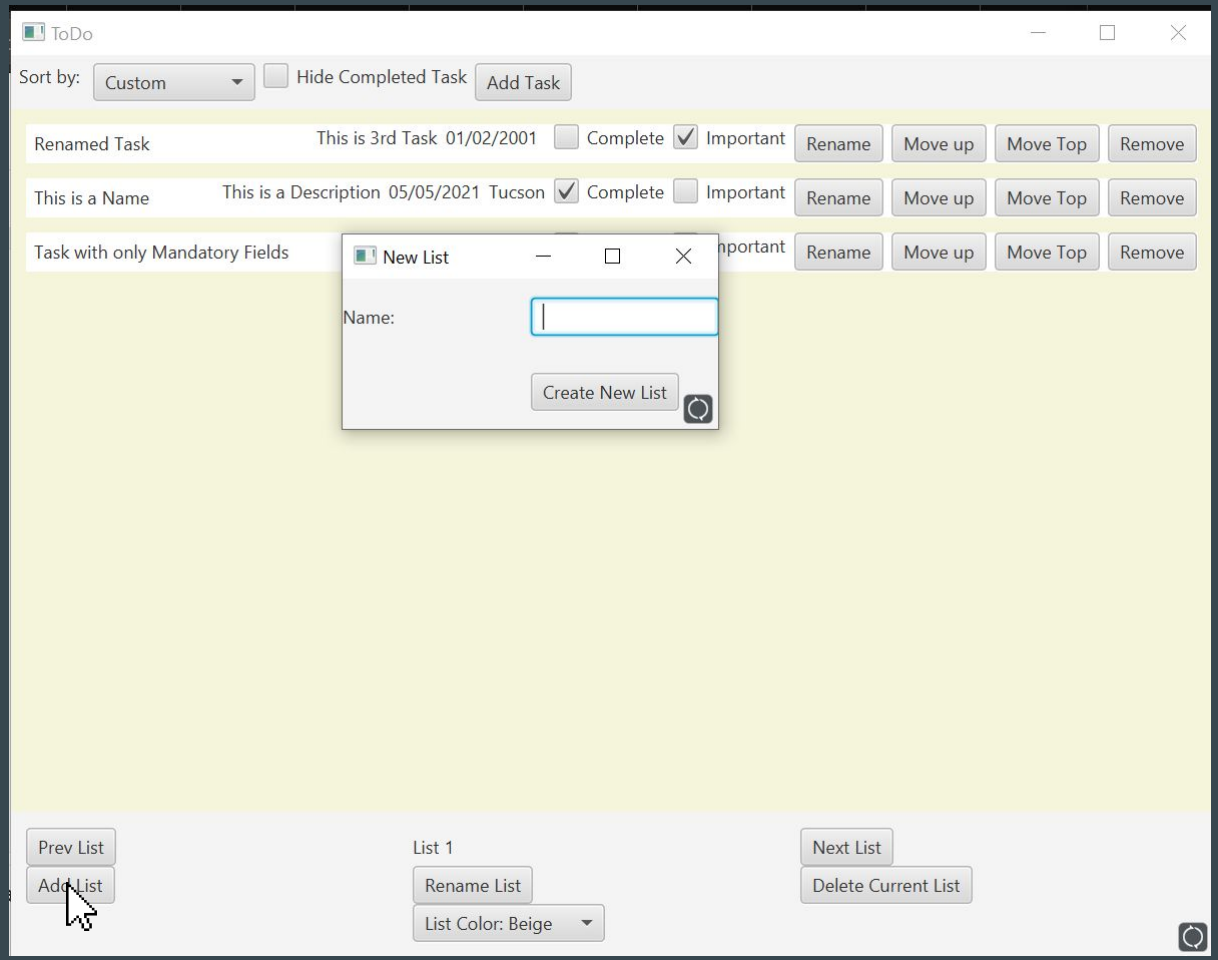
# Sorting By Custom

- 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.



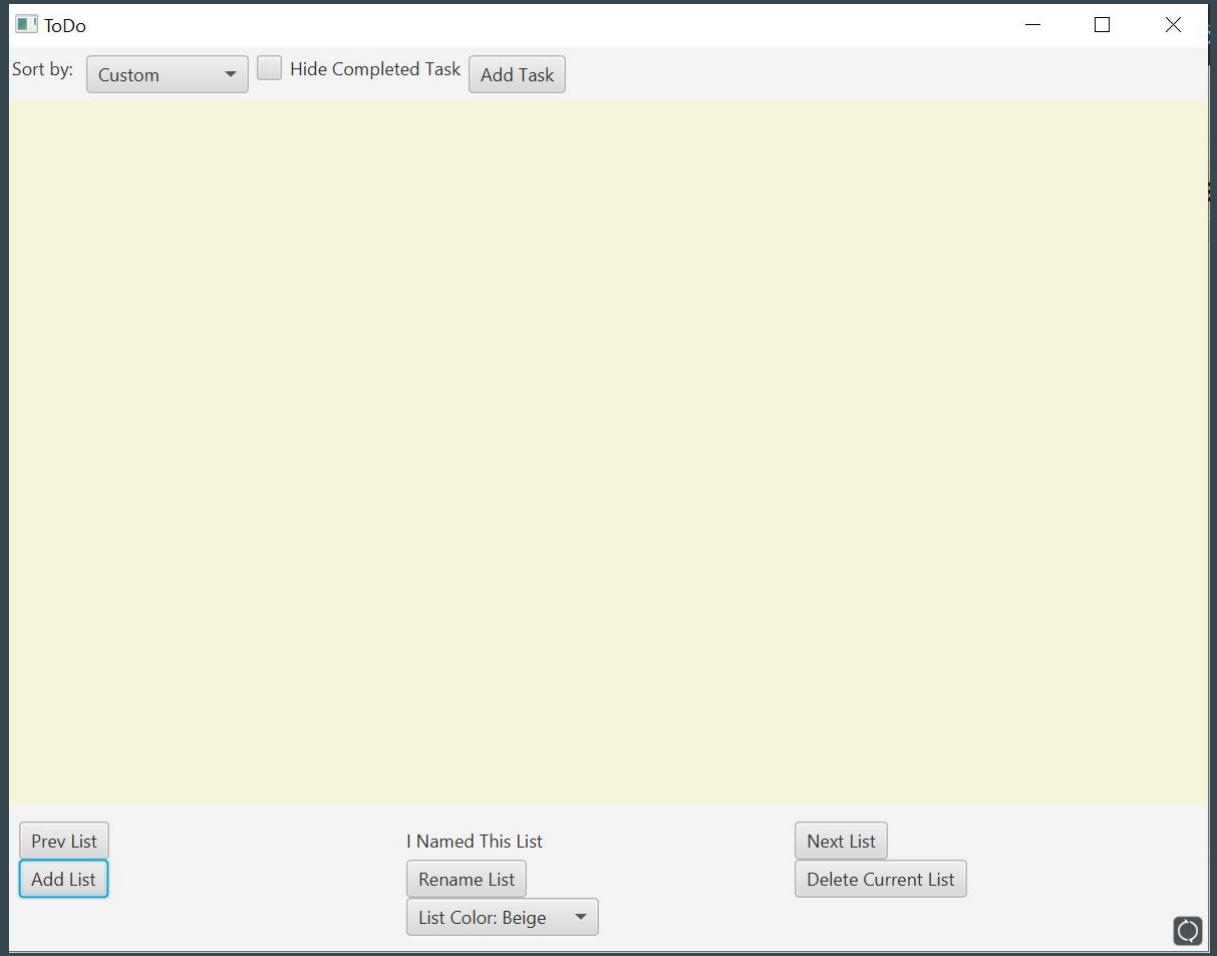
# Multiple Lists

- On Startup without a save only 1 list 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.



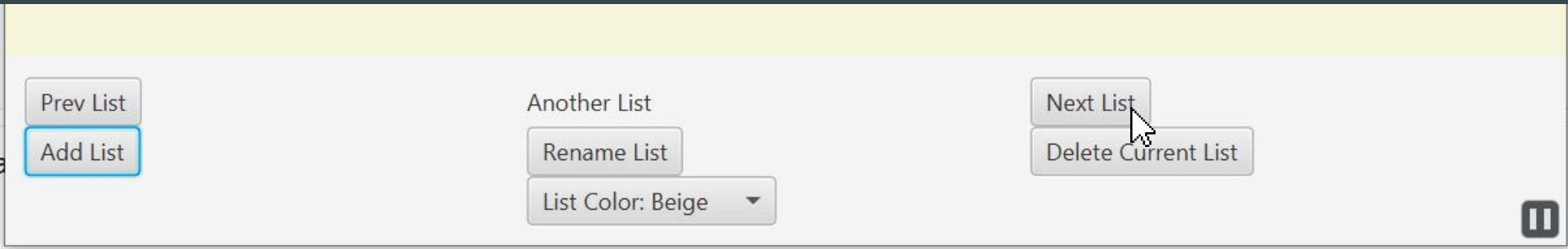
# Multiple Lists

- 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.

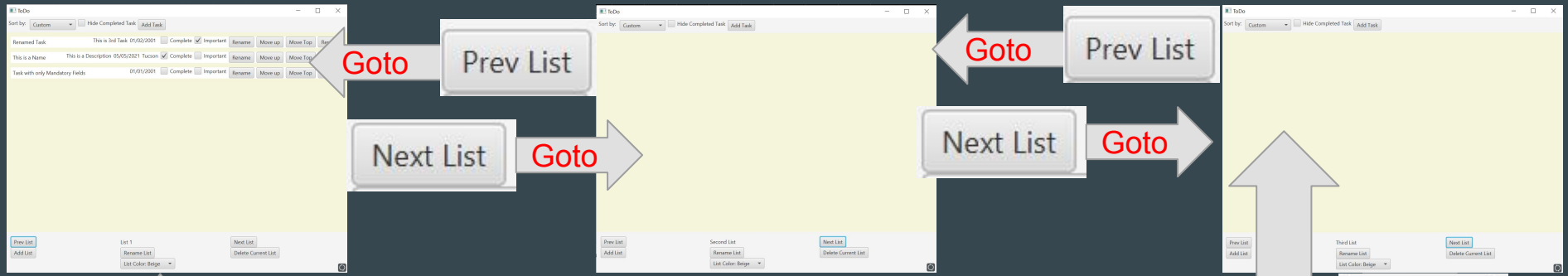


# Visual Representation of How Multiple List is Traversed

List 1 (Oldest List)

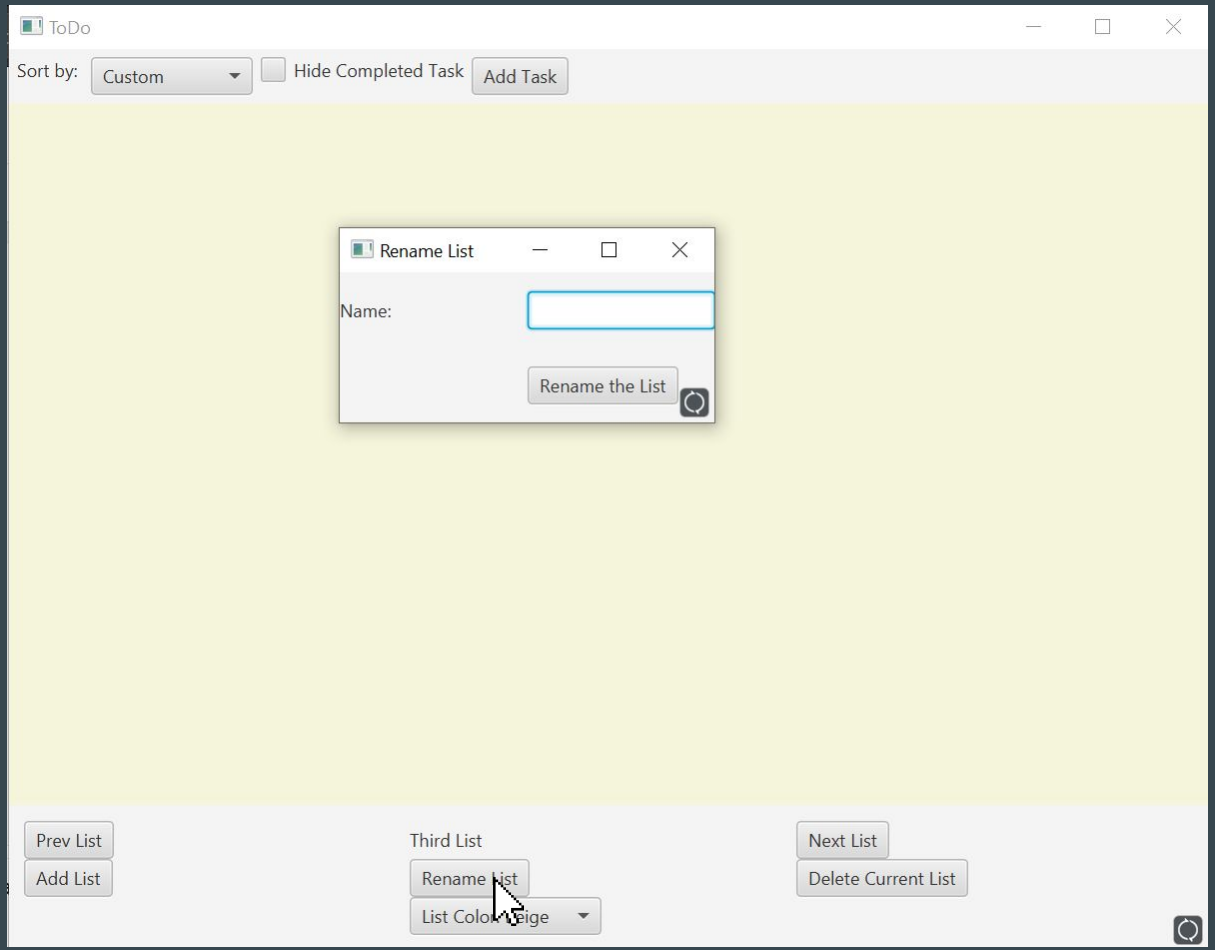
Second List

Third List (Earliest List)



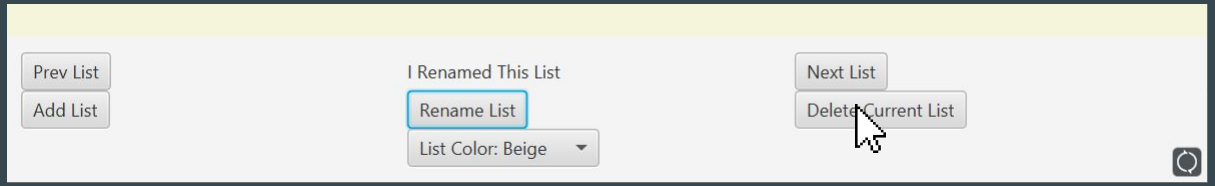
# Renaming Lists

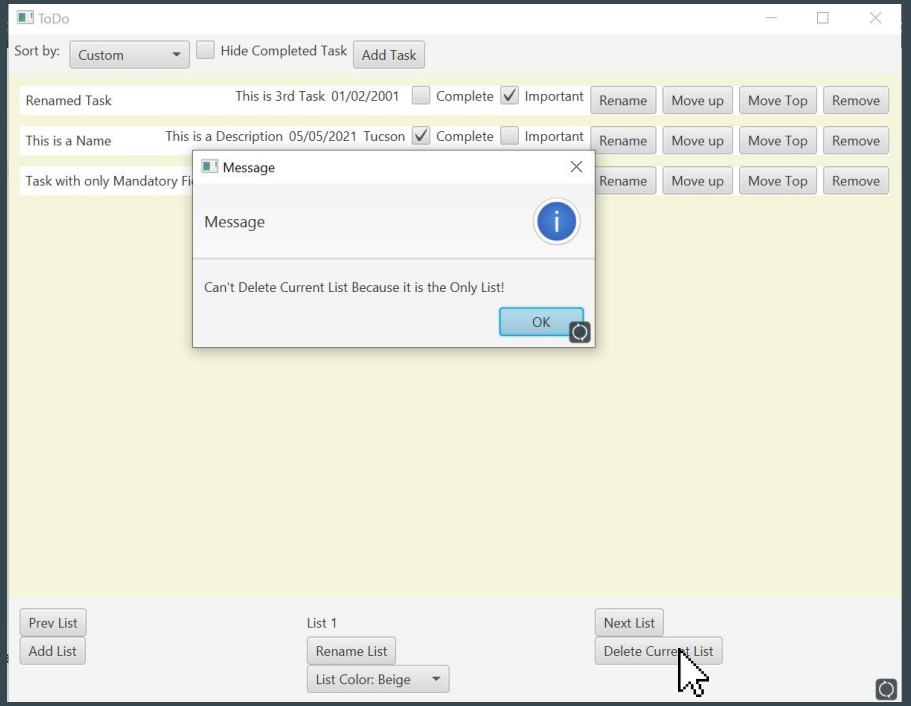
- Clicking the Rename List button allows the user to rename the current list.



# Deleting Lists

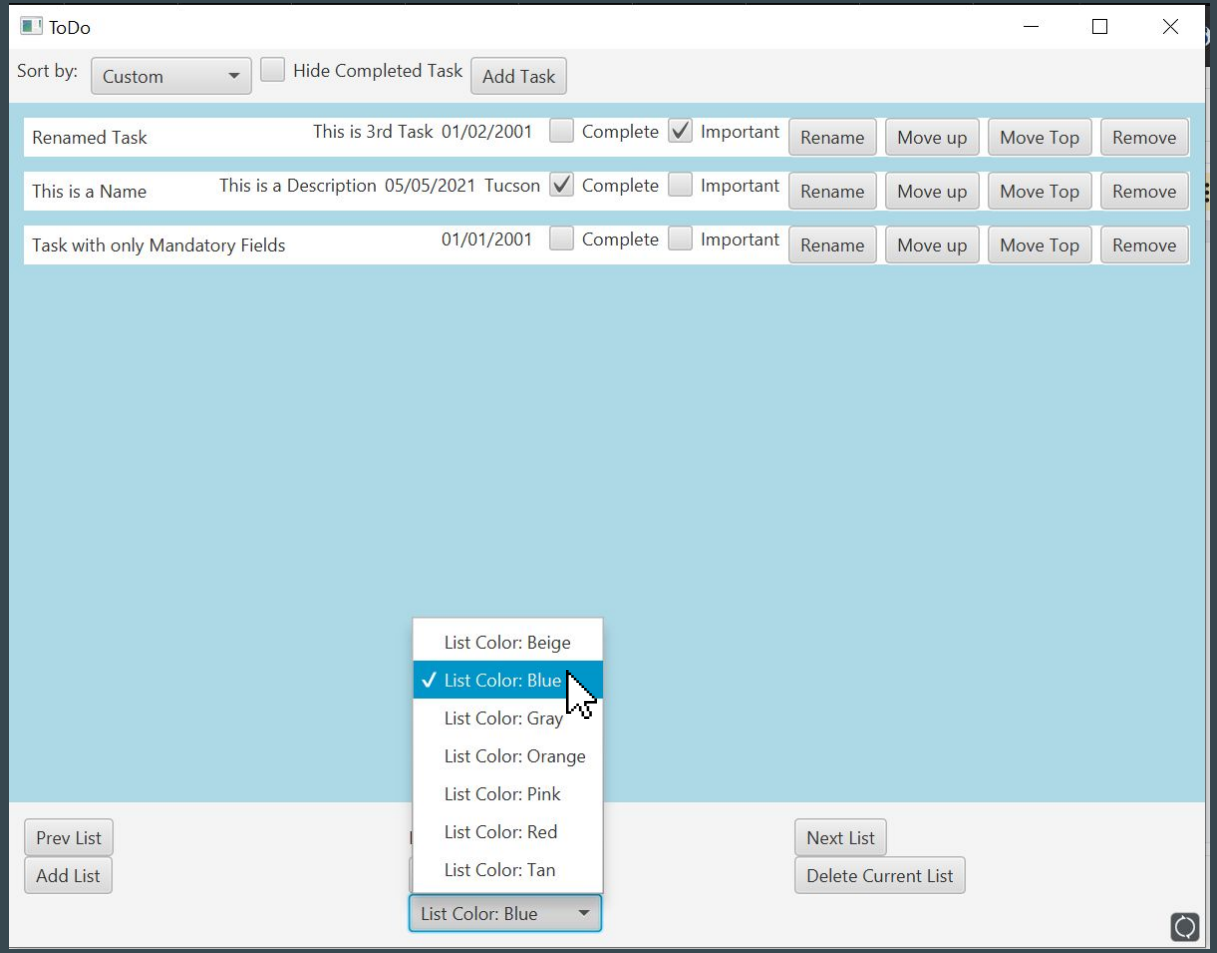
- By clicking the Delete Current List button the current list will be deleted and the user will be taken to another list.
- If the user attempts to delete the only list the user currently has a window will pop up informing the user they can't do that to prevent the user from breaking the program.



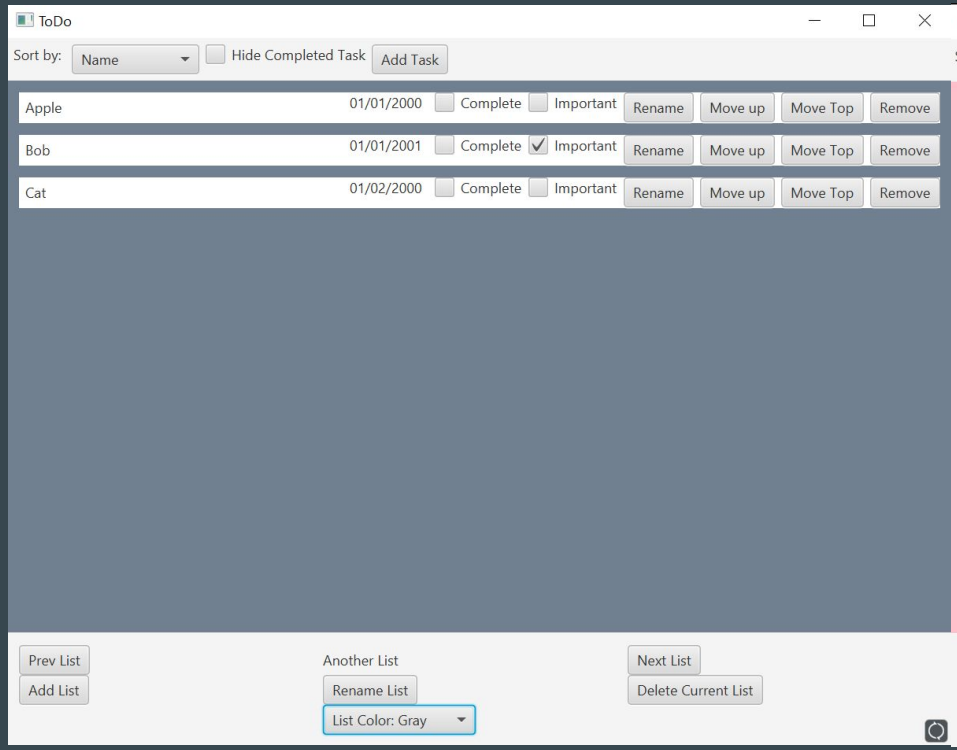



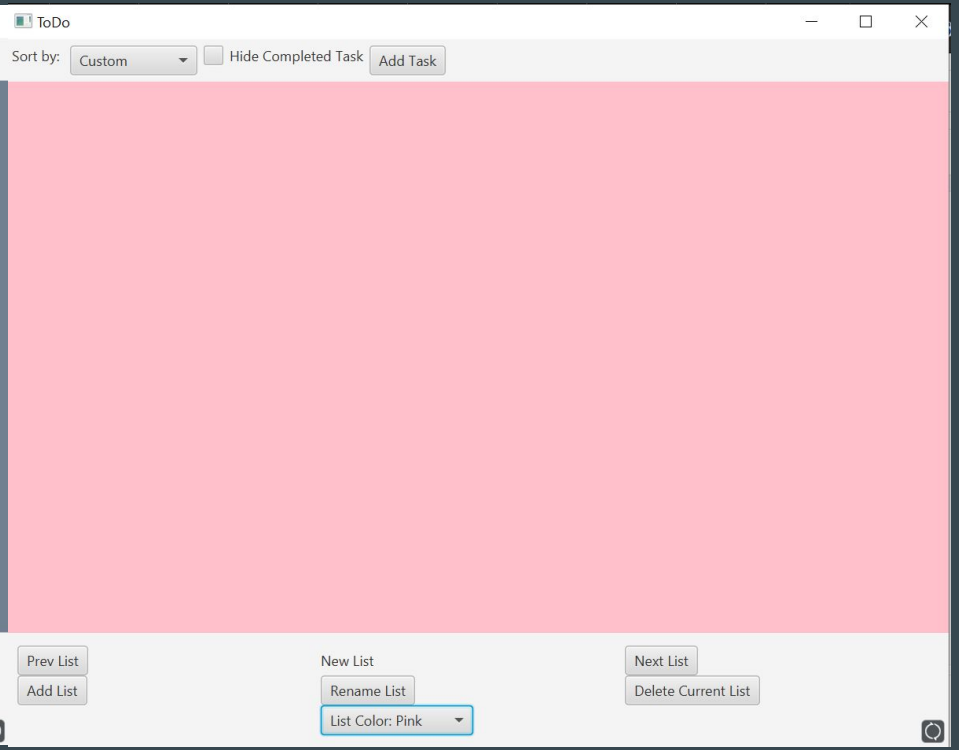
# Wow Factor: Changing Color

- 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




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 1 empty 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 we programmed.