Task Hierarchy Use Case

Diagram

Description automatically generated

Note for all use cases: The GanttSystem interacts with the task hierarchy when it involves other objects from the project app (for ex: tasks).

Organize Task:

Precondition – The system needs to have a minimum of two tasks and at least one of them is selected.

The use case starts when the manager clicks one of six buttons on top of the task hierarchy sidebar and the system acts accordingly.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* Gantt System.

Move Task Up:

Precondition – Inherits preconditions from Organize Task. The selected task must not be the topmost task in the hierarchy.

The use case starts when the manager clicks on the move up button. The system now showcases the selected task one position above its initial one.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* Gantt System.

Move Task Down:

Precondition – Inherits preconditions from Organize Task. The selected task must not be the downmost task in the hierarchy.

The use case starts when the manager clicks on the move down button. The system now showcases the selected task one position below its initial one.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* Gantt System.

Indent Task:

Precondition – Inherits preconditions from Organize Task. The selected task must not be the topmost task. The selected task must be at the same level (horizontally) as one of the tasks above it.

The use case starts when the manager clicks on the indent button. The system now showcases the selected task one level (horizontally) forward, being nested to the one above it.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* Gantt System.

Unindent Task:

Precondition – Inherits preconditions from Organize Task. The selected task must not be the topmost task. The selected task must be one level forward (horizontally) to the one directly above it.

The use case starts when the manager clicks on the unindent button. The system now showcases the selected task one level (horizontally) backwards, stops being nested to the one above it.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* Gantt System.

Created Dependencies:

Precondition – Inherits preconditions from Organize Task. At least two tasks are selected. The two tasks must not be nested to one another. The two tasks must not already have a dependency.

The use case starts when the manager clicks on the create dependencies button. The system now showcases a dependency going from one task to another.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* Gantt System.

Delete Dependencies:

Precondition – Inherits preconditions from Organize Task. At least two tasks are selected. The two tasks must not be nested to one another. The two tasks must already have a dependency.

The use case starts when the manager clicks on the delete dependencies button. The system now does not show the dependency going from one task to another, as it does not exist anymore.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* Gantt System.

Delete Column:

Precondition – The manager must select an existing column while managing the columns. The selected column must be user-made.

The use case starts when the manager clicks the Delete button while managing the columns. The system deletes the selected column from the tasks.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* Gantt System.

Add Column:

Precondition – None.

The use case starts when the manager clicks the Add button while managing the columns. The system adds a new column to the tasks.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* Gantt System.

Show Column:

Precondition – The selected column must not be visible.

The use case starts when the manager clicks the Show button while managing the columns. The column is visible on the sidebar hierarchy to the manager.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* None.

Hide Column:

Precondition – The selected column must be visible.

The use case starts when the manager clicks the Hide button while managing the columns. The column is not shown on the sidebar hierarchy to the manager.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* None.

Resize Column:

Precondition – The selected column must be visible.

The use case starts when the manager clicks the Resize button on a column. The column’s size is automatically adjusted.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* None.

Move Column:

Precondition – The selected column must be visible.

The use case starts when the manager clicks and holds on a column. The column is moved sideways and switches places with other columns based on the movement made by the manager.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* None.

Sort Column Entries:

Precondition – The selected column must be visible. The selected column must not be the name column.

The use case starts when the manager double clicks a column. The column is sorted based on the indentation, the value being sorted and the “direction” of sorting.

Postcondition – None.

Primary Actor:

* Manager.

Secondary Actor:

* None.