

MISSION CONFIGURATION



NETRA

HOME PAGE



MODULE UNDER CONSIDERATION :- MISSION CONFIGURATION

The Mission Configuration module empowers users to tailor tasks to their unique needs by allowing the selection of equipment from a diverse range for up to N different pieces. Operating as a user-friendly canvas-based system, it simplifies task creation for both intricate and straightforward missions. Users can flexibly define task requirements for each phase, such as "Harbour" or "Cruise." For instance, with 4 Gas Turbines (GTS) available, users can allocate 2 GTS specifically for the "Harbour" phase, customizing equipment usage for each phase. Importantly, this dynamic feature extends to configuring parallel equipment within the task, providing users with the ability to fine-tune their mission setup and optimize resource allocation for each distinct phase efficiently.

NOTE:-

Please use only those Equipment whose Alpha,Beta values are present.

Structure of the Mission Configuration Module

Stage1:-

←

BACK
BUTTON

DEFAULT NODE

Task Name

ACTION BUTTONS

+

-

⌂

🔒

Horizontal Layout

Vertical Layout

Clear Layout

USER SELECTION

Load Saved Tasks

Component Details

Ship Name

Ship Category

Ship Class

Command

Department

Select Equipments

Select Nomenclature

LOAD EQUIPMENTS

Stage2:-

←

BACK
BUTTON

DEFAULT NODE

Task Name

ACTION BUTTONS

+

-

⌂

🔒

Horizontal Layout

Vertical Layout

Clear Layout

COMPONENT DETAILS

Load Saved Tasks

Save

Back

Basic Details

Name

Name

Parent Name

Parent Name

Advance Details

Please Select Parallel Components

Select...

Enter K-Harbour value

Enter K- Entry Leaving Harbour v

Enter K-Cruise value

Enter K-Defense Station value

Enter K-Action Station value

Save Details

BACK BUTTON:- Takes you back to “HOME” screen

DEFAULT NODE:- A Default Node “Task Name” will be created on going inside the mission configuration module.

ACTION BUTTONS:-



ZOOM-IN :- zooms on task.



ZOOM-OUT:- zooms out of task.



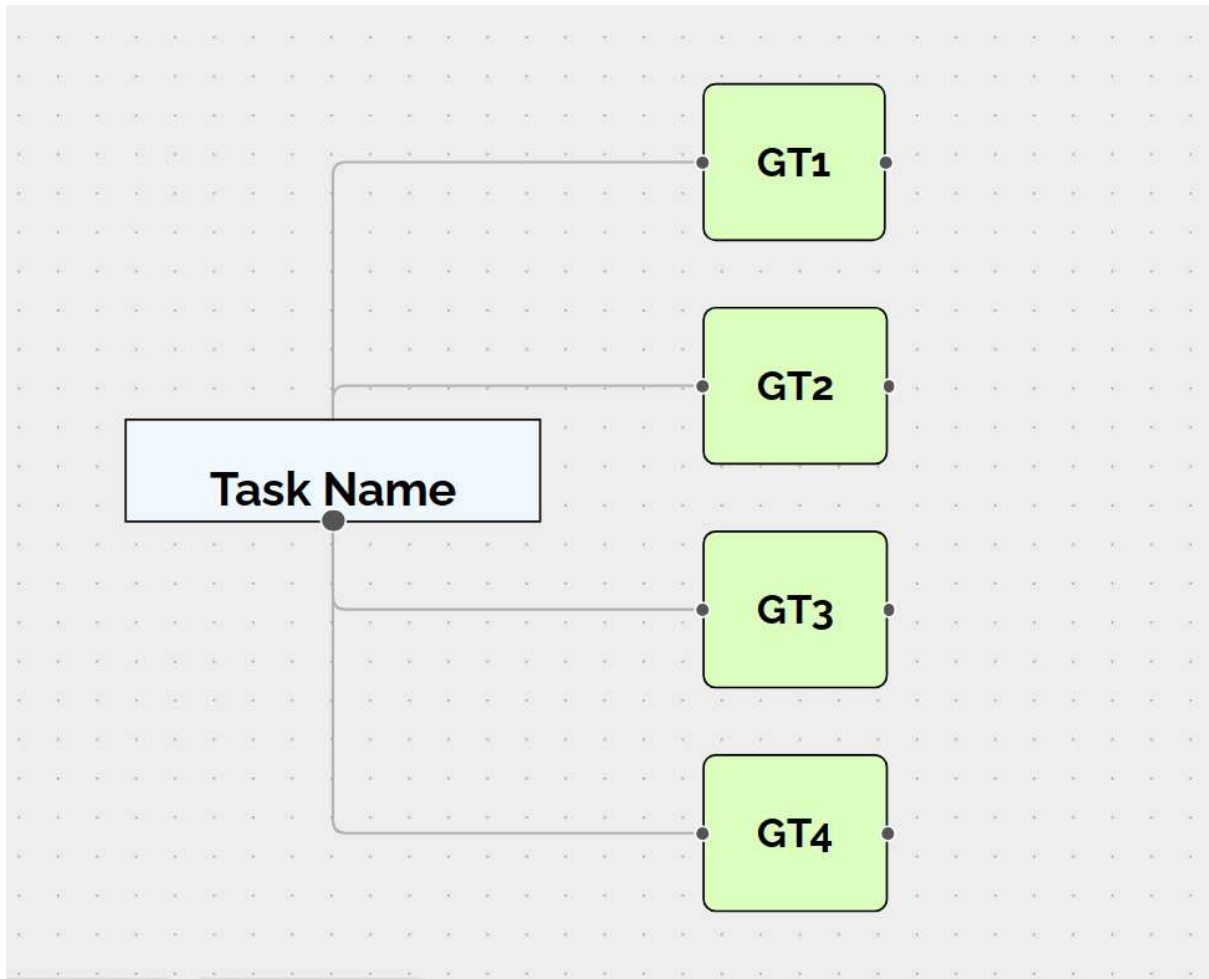
FIT-VIEW:- fits the task at the center of screen.



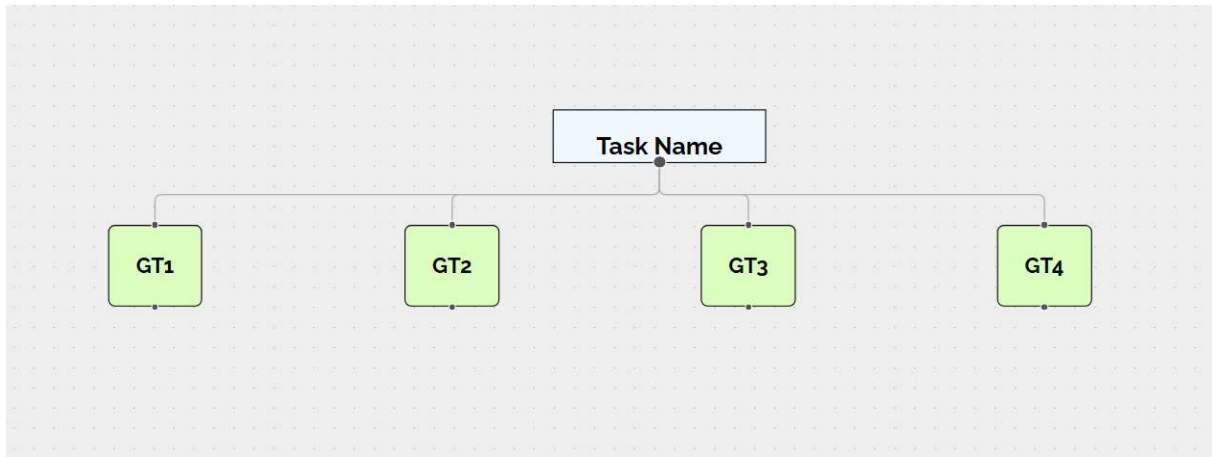
LOCK-IN:- locks the task’s structure, cant increase the distance between the nodes and the task name node.



HORIZONTAL LAYOUT:-



VERTICAL LAYOUT:-



CLEAR LAYOUT:-Clear's The Canvas.

USER SELECTION:-

Load Saved
Tasks

Component
Details

Ship Name

Ship Category

Ship Class

Command

Department

Select Equipments




Select Nomenclature




LOAD EQUIPMENTS

BUTTONS:-

A rectangular button with rounded corners, containing the text "Load Saved Tasks" in a black, sans-serif font, centered both horizontally and vertically.

Helps to Load the previous Saved Tasks.

A rectangular button with rounded corners, containing the text "Component Details" in a black, sans-serif font, centered both horizontally and vertically.

Loads the stage 2 of the ui where one can define K/N for particular Equipment and their Parallel Equipment.

A rectangular button with rounded corners, containing the text "Save" in a black, sans-serif font, centered both horizontally and vertically.

Final “save” button, used to save the task in Netra.

A rectangular button with rounded corners, containing the text "Back" in a black, sans-serif font, centered both horizontally and vertically.

Used to toggle between user selection and component details

Example Task:-

To create a task with only Gas Turbines as equipment, follow these steps:

1. Navigate through the user selection fields for ship name, ship category, ship class, and command.

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🔒

Horizontal Layout

Vertical Layout

Clear Layout

Task Name

Load Saved Tasks

Component Details

Ship Name

SHIP 1

Ship Category

DESTROYER

Ship Class

KOLKATA(P-15A)

Command

WESTERN

Department

Select Equipments

Select Nomenclature

LOAD EQUIPMENTS

2. Select the department containing the specific equipment; in this case, choose engineering for gas turbines.

←

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⌕

🔒

Horizontal Layout

Vertical Layout

Clear Layout

Task Name

Load Saved Tasks

Component Details

Ship Name

SHIP 1

Ship Category

DESTROYER

Ship Class

KOLKATA(P-15A)

Command

WESTERN

Department

ENGINEERING

Select Equipments

Select Nomenclature

LOAD EQUIPMENTS

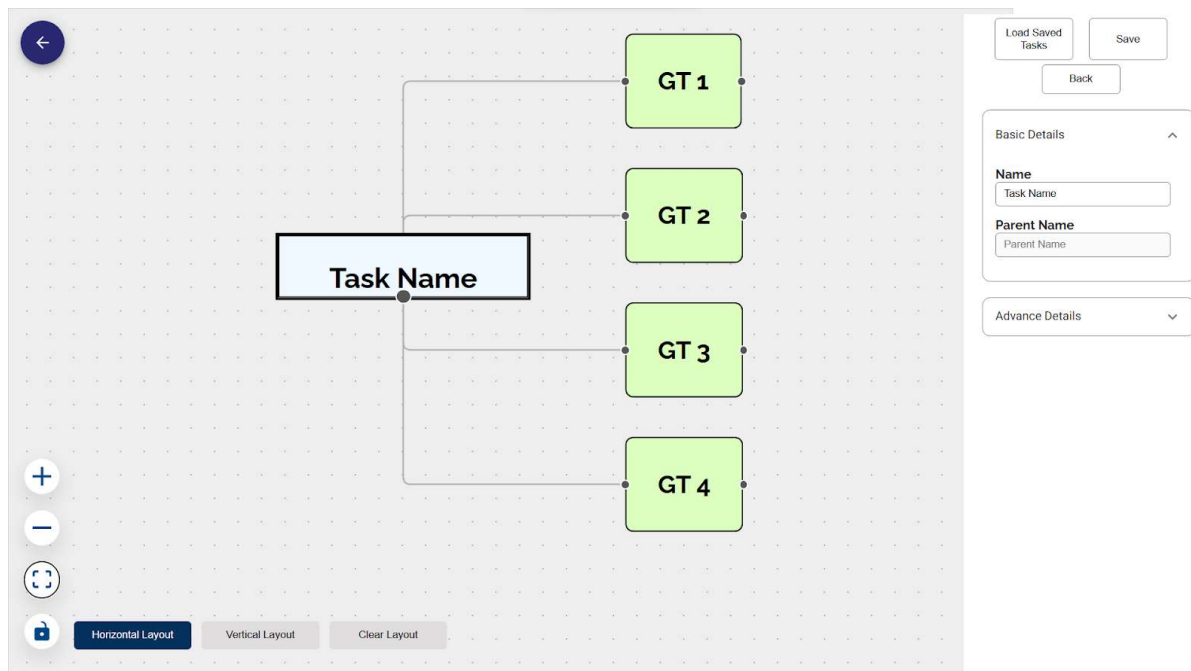
3. The system will filter out relevant equipment for the task. Now, select the required Gas Turbines for the task.

The screenshot shows a task configuration interface. On the left is a canvas with a grid background. A box labeled 'Task Name' is placed on the grid. To the left of the canvas are four circular icons: a back arrow, a plus sign, a minus sign, and a refresh icon. Below these icons are three buttons: 'Horizontal Layout' (highlighted in blue), 'Vertical Layout', and 'Clear Layout'. On the right is a sidebar with filters. At the top are two buttons: 'Load Saved Tasks' and 'Component Details'. Below are dropdown menus for 'Ship Name' (SHIP 1), 'Ship Category' (DESTROYER), 'Ship Class' (KOLKATA(P-15A)), 'Command' (WESTERN), and 'Department' (ENGINEERING). There is a 'Select Equipments' section with a dropdown showing 'GAS TURBINE' and a close button. Below that is a 'Select Nomenclature' dropdown. At the bottom of the sidebar is a blue button labeled 'LOAD EQUIPMENTS'.

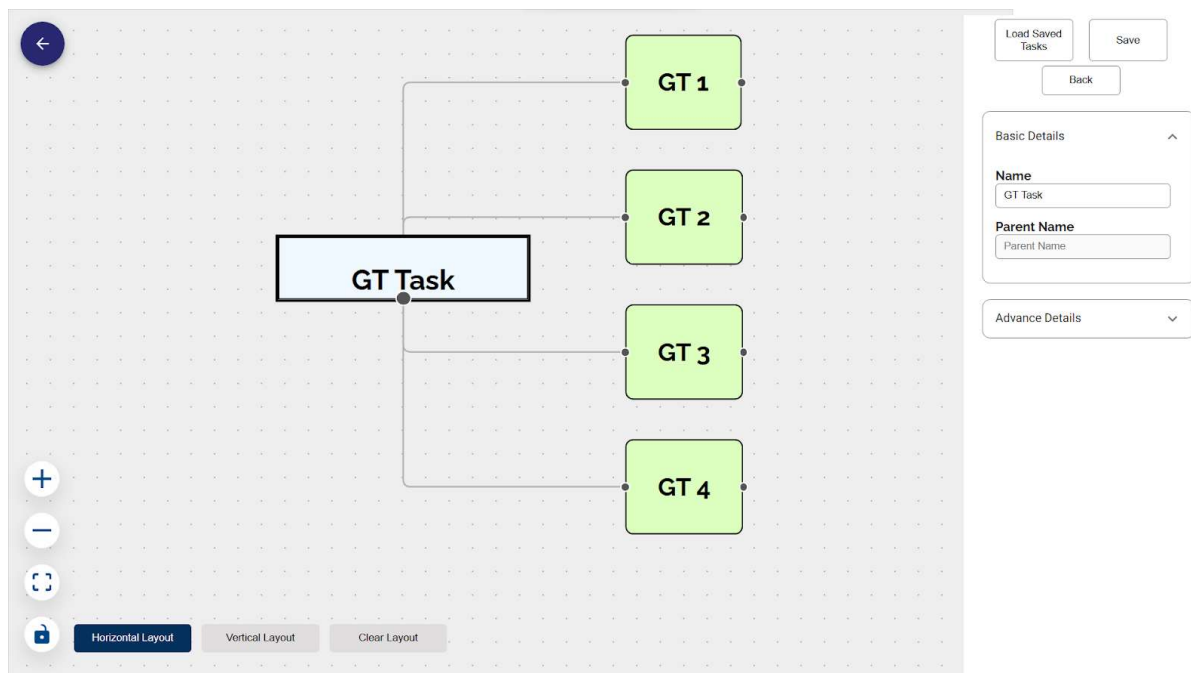
4. Choose the nomenclature for the selected Gas Turbines, then click "Load Equipment" to create the task, visible on the canvas.

The screenshot shows the same task configuration interface as before, but now the task is created. On the canvas, a box labeled 'Task Name' is connected by lines to four green boxes labeled 'GT 1', 'GT 2', 'GT 3', and 'GT 4'. The sidebar filters remain the same, but the 'Select Equipments' dropdown now shows 'GAS TURBINE' with a close button. The 'Select Nomenclature' dropdown now shows four options: 'GT 1', 'GT 2', 'GT 3', and 'GT 4', each with a close button. The 'LOAD EQUIPMENTS' button is still present at the bottom of the sidebar.

5. Select the default node named "Task Name" and click on the "Component Details" button in the user selection section.

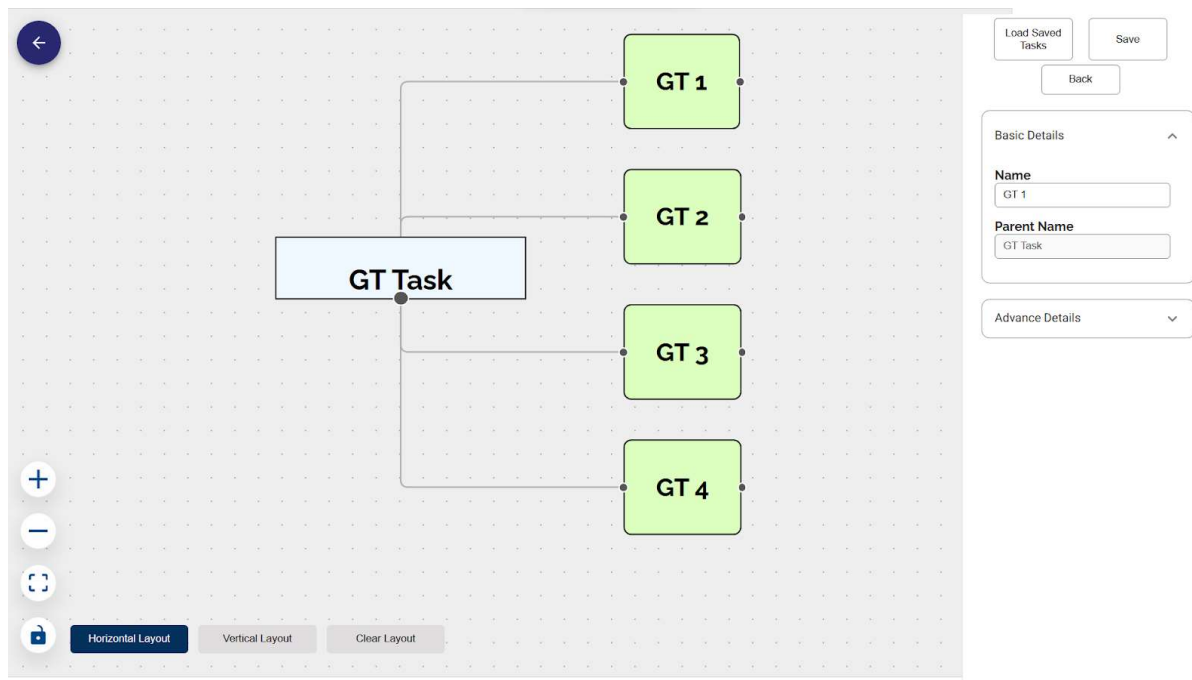


6. Inside the basic details, modify the task name appropriately.

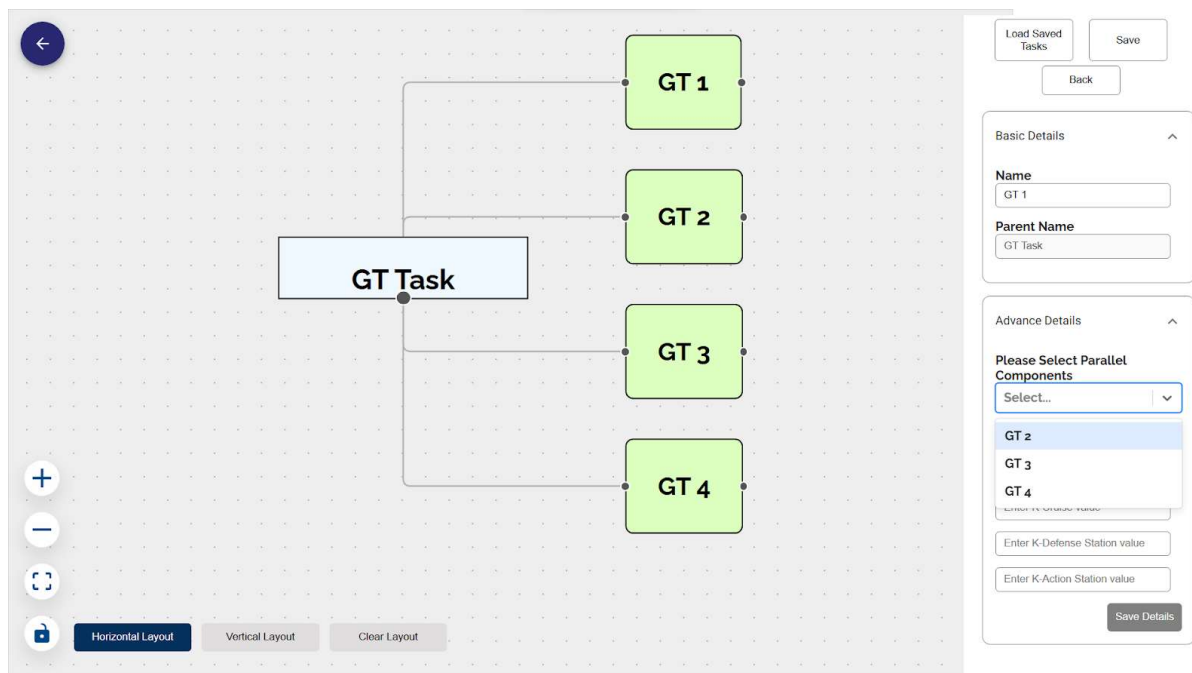


7. Now, select the equipment nodes and configure their k/n values. For example, consider 4 Gas Turbines, with 2 pairs (GT1 parallel to GT2 and GT3 parallel to GT4).

8. Start by selecting GT1; it will load the corresponding details in the basic section.



9. Expand the advanced details section and choose the parallel component for the equipment (GT1).



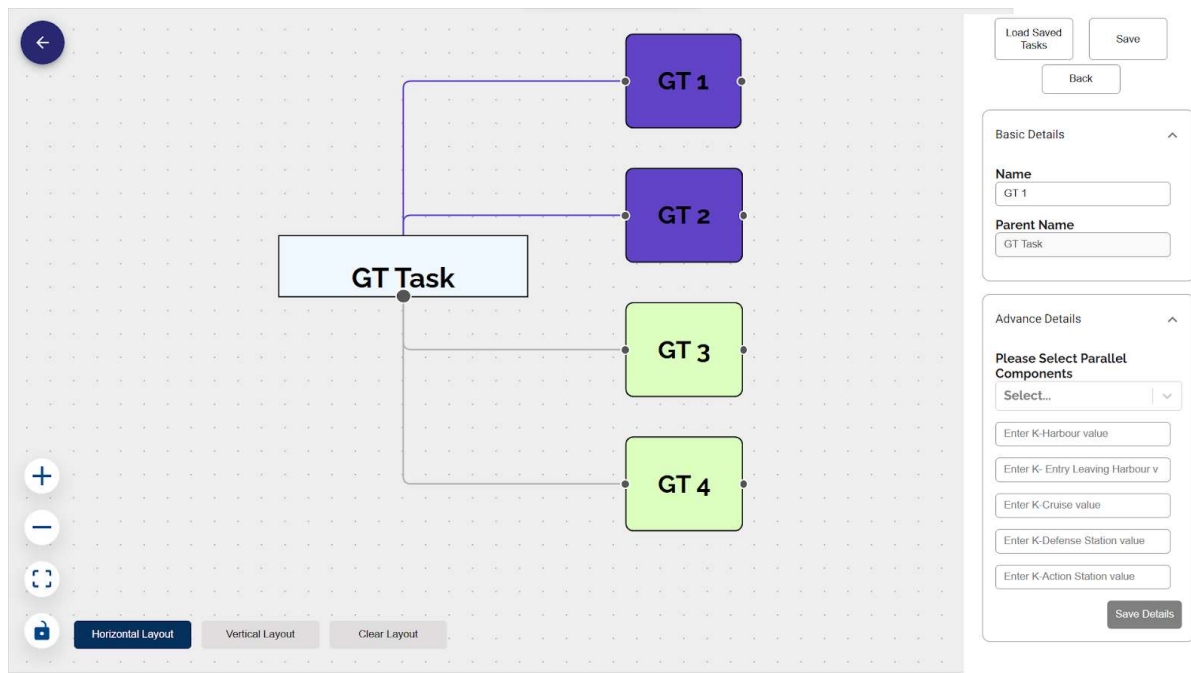
10. Select GT2 from the dropdown of the parallel component.

The screenshot shows a task configuration interface. On the left, a 'GT Task' box is connected to four parallel components: GT 1, GT 2, GT 3, and GT 4. The 'GT 2' component is selected in the dropdown menu. The interface includes a 'Horizontal Layout' button, a 'Vertical Layout' button, and a 'Clear Layout' button. On the right, there is a 'Basic Details' section with 'Name' (GT 1) and 'Parent Name' (GT Task). Below it is an 'Advance Details' section with a dropdown menu showing 'GT 2' selected, and several input fields for 'Enter K-Harbour value', 'Enter K-Entry Leaving Harbour v', 'Enter K-Cruise value', 'Enter K-Defense Station value', and 'Enter K-Action Station value'. A 'Save Details' button is at the bottom right.

11. Define the k/n configuration for GT1 for each phase.

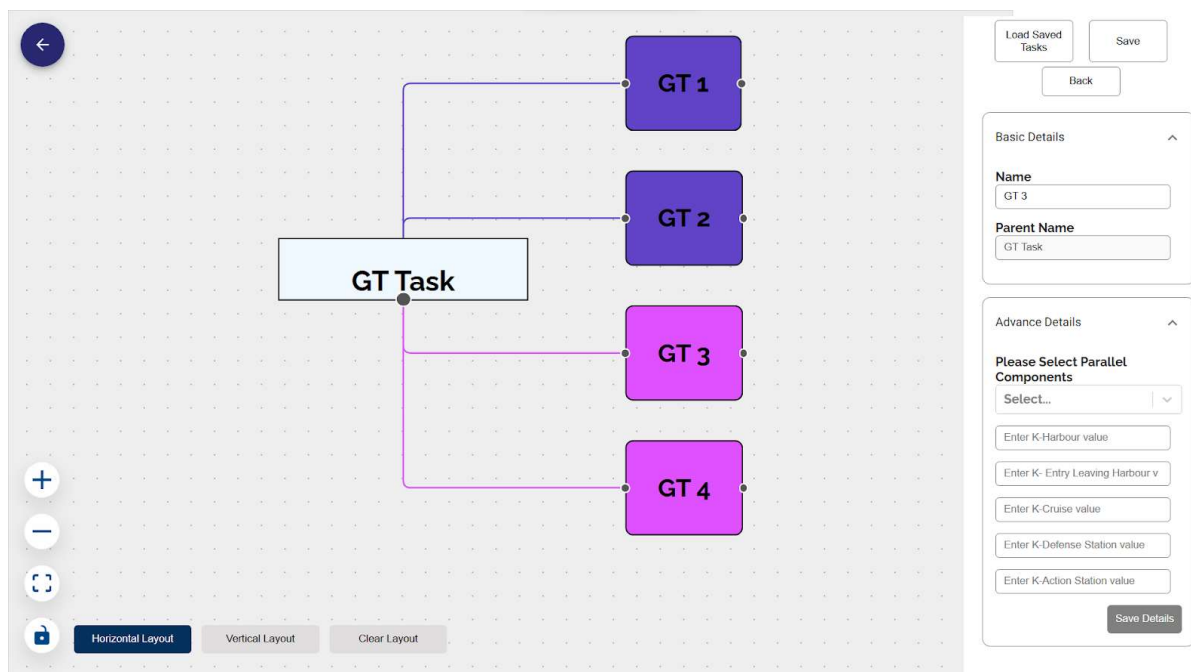
The screenshot shows the same task configuration interface, but now the 'GT 1' component is selected in the dropdown menu. The 'Advance Details' section shows the dropdown menu with 'GT 1' selected. Below the dropdown, there are five input fields for 'k/n' configuration: '1', '1', '1', '2', and '2'. A 'Save Details' button is at the bottom right.

12. Click On, Save details.Colors of the equipment nodes will change indicating setting of k/n has been done for those equipment.

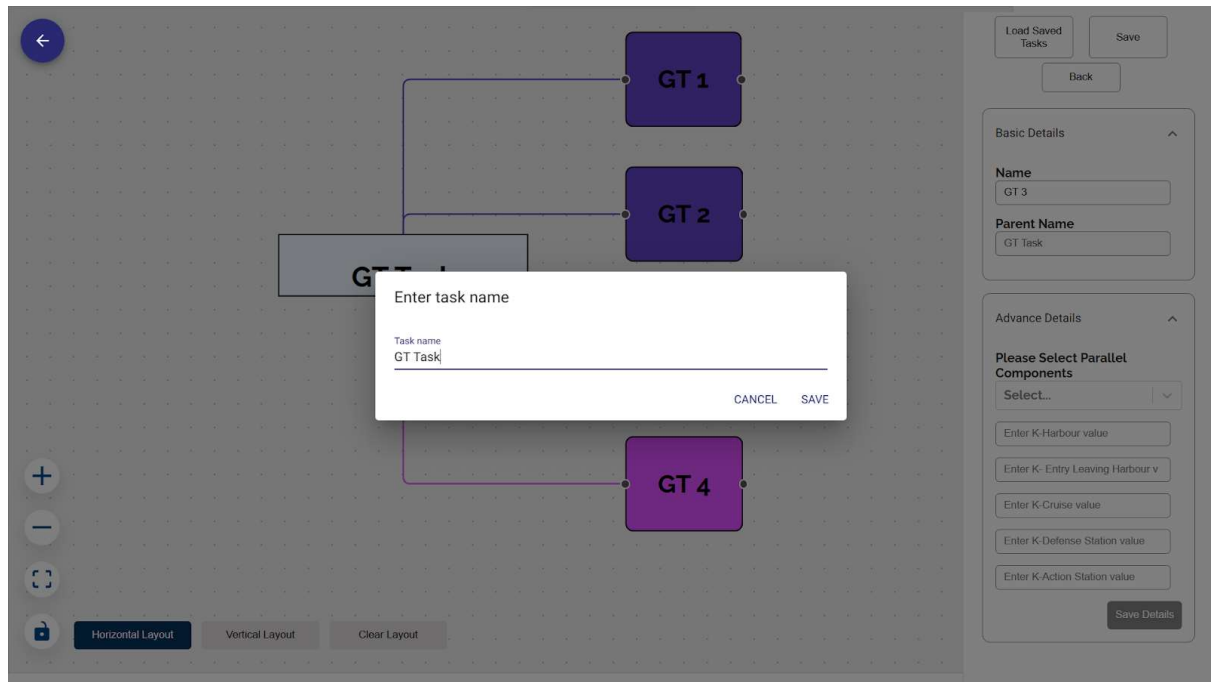


13. Repeat steps 8-12 for GT3.

14. All equipment nodes changed color indicated that the task is now ready to save.



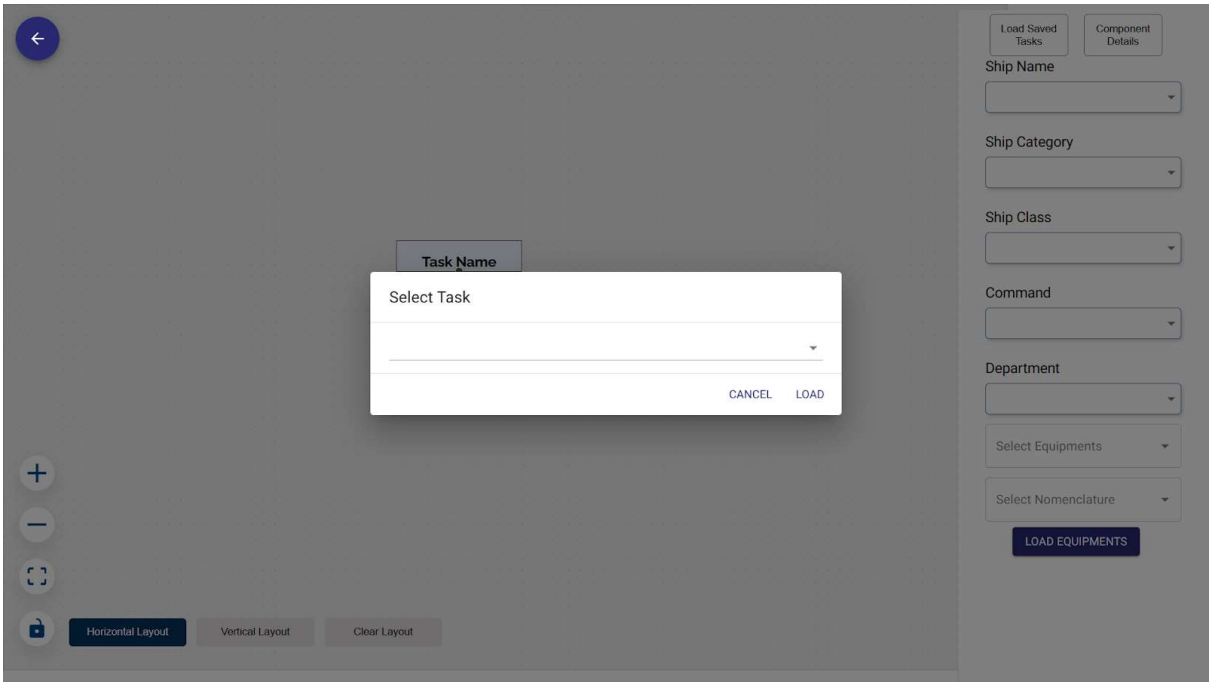
15. After configuring the task, click on the "Save" button. A pop-up will appear; enter the task name and click "Save" again.



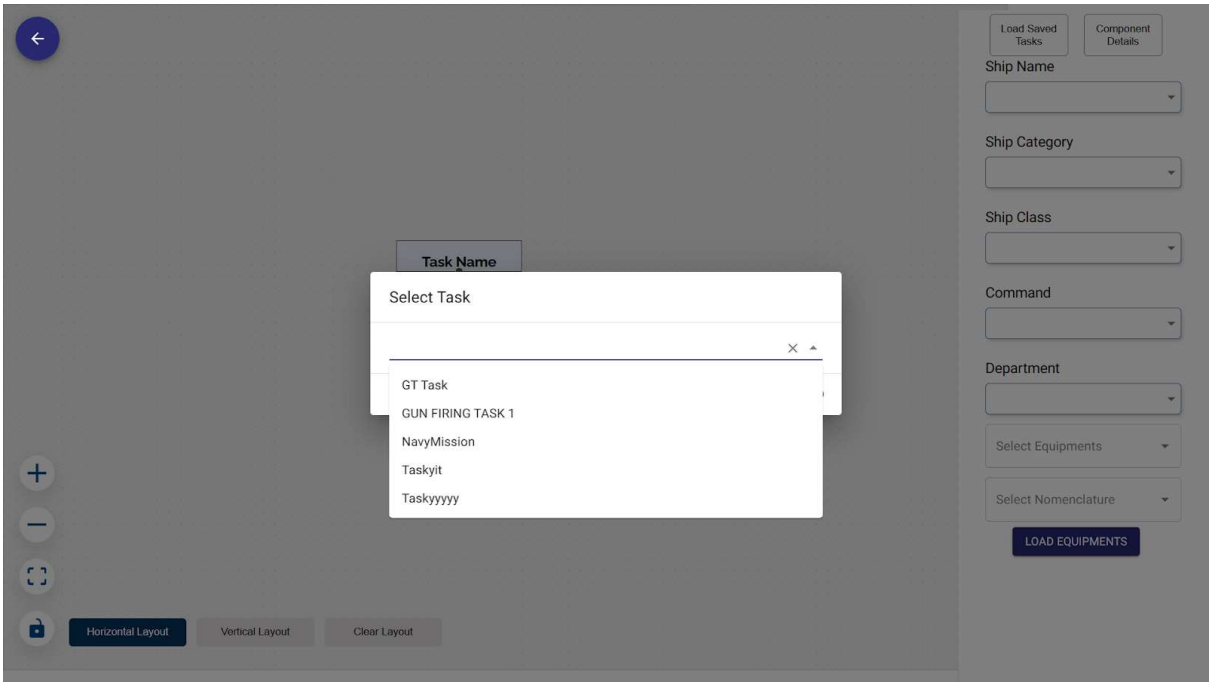
LOAD PREVIOUS TASKS

To see a previously configured task, follow these steps:

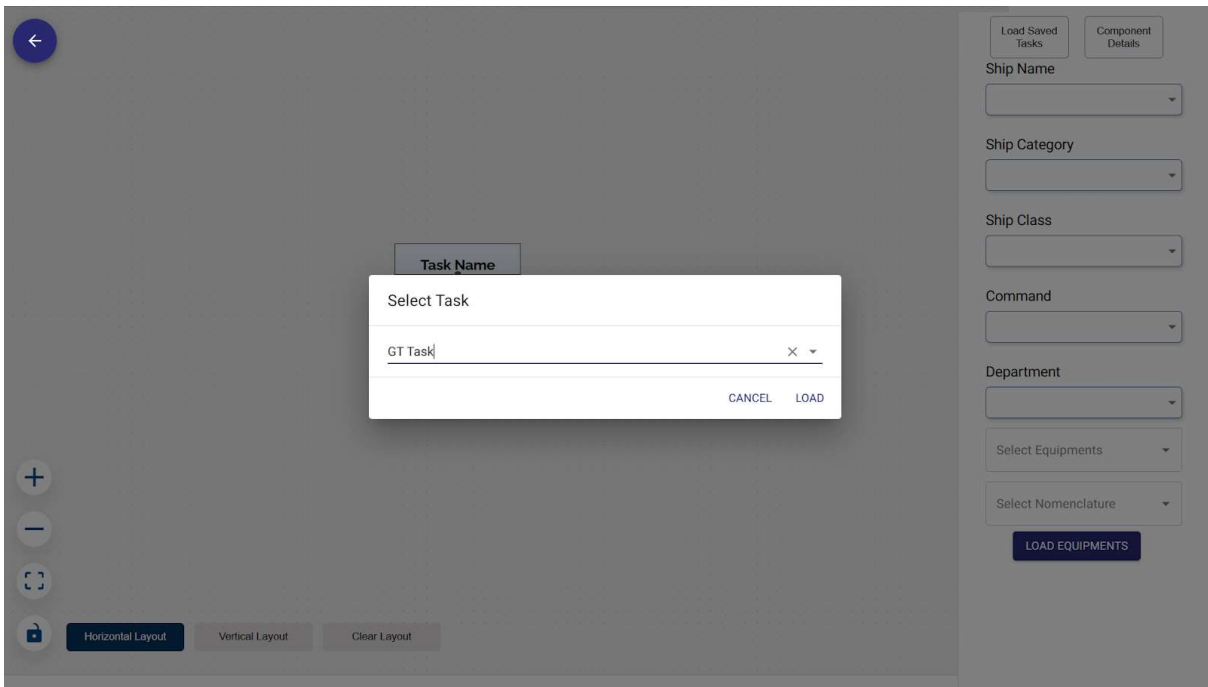
1. Click on the "Load" button; a pop-up will appear.



2. From the dropdown menu, select the task you want to preview.



3. Click on the "Load" button, and the selected task will become visible on the canvas.



4. Loaded task

