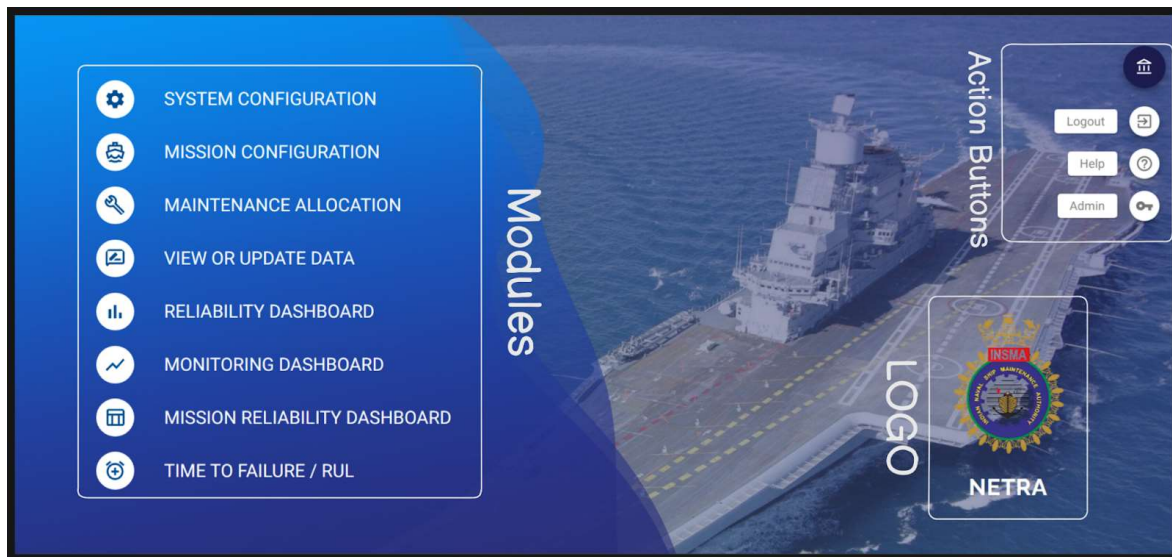


MISSION RELIABILITY DASHBOARD



NETRA

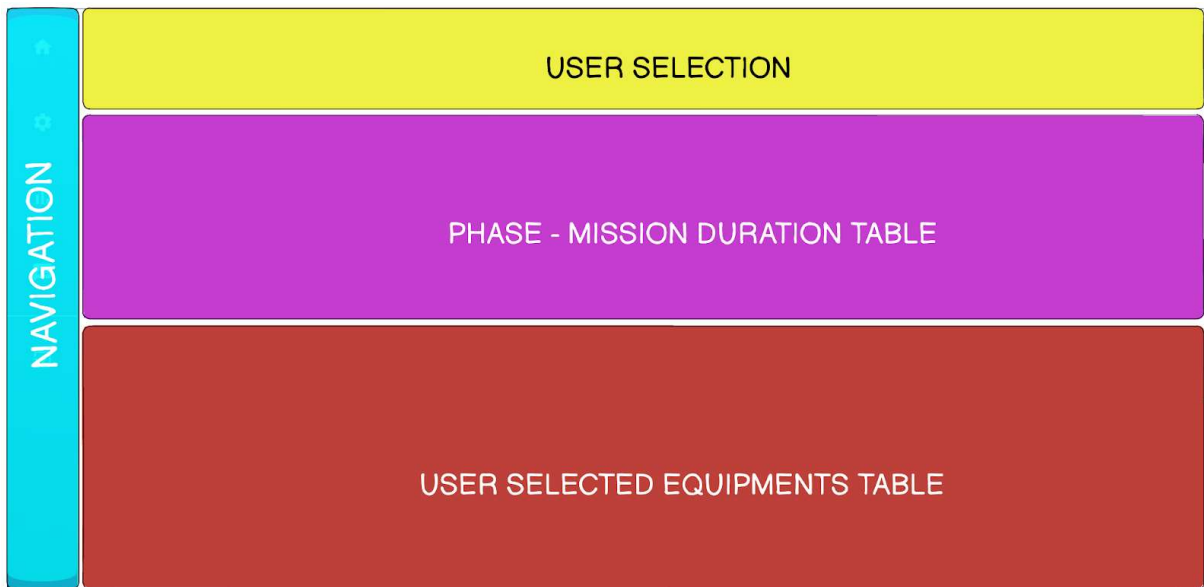
HOME PAGE



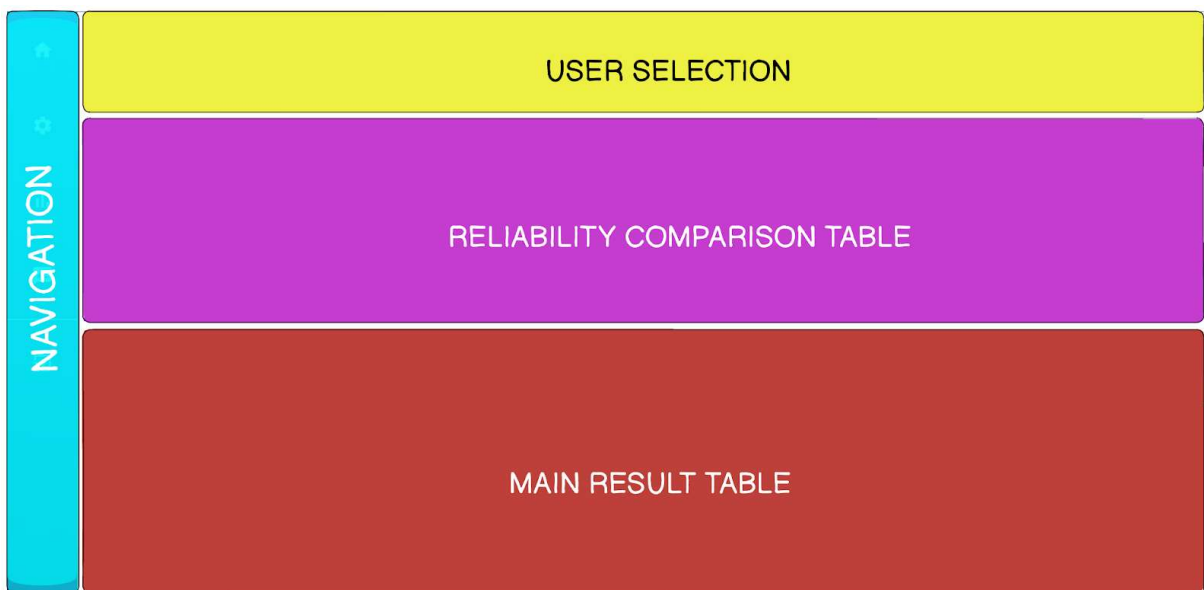
MODULE UNDER CONSIDERATION: MISSION RELIABILITY DASHBOARD

Mission Reliability Dashboard: This module serves as an interface to display the reliability assessment for a particular mission. Users have the ability to specify key parameters such as mission duration, and phases, for the task. The Mission Reliability Dashboard provides a comprehensive overview, allowing users to assess the reliability of their mission based on the defined criteria. This empowers users to make informed decisions and optimize mission planning and execution

STRUCTURE OF MISSION RELIABILITY DASHBOARD:- STAGE -1



STAGE -2



Navigation:- contains different buttons to various modules and home.



User Selection:- contains Selections required to filter out tasks.

Ship Name

Task Name

RESET SCREEN

Phase Mission Duration Table:-

Phase	Duration
No Rows To Show	
<div>+ ADD ROWDELETE ROWSRECOMMEND SOLUTION</div>	

User Selected Equipment Table:-

Phase	Select Component for Phase
No Rows To Show	
<div>+ ADD THIS TASK FOR COMPARISONCALCULATE RELIABILITY</div>	

Buttons:-

Buttons	Use
Reset Screen	Clear previously saved tasks for comparison
Add Row	Adds a row to the table
Delete Row	Deletes a row after selecting the checkbox for a row
Add Task for Comparison	Saves the created task for comparison
Calculate Reliability	Shows the stage-2 of the UI with result tables
Recommend Solution	Recommends equipments from Netras algorithm in the form of a table

STEPS TO DETERMINE RELIABILITY OF A TASK:

1. Ship and Task Selection:

- Choose the ship name and corresponding task for which you want to assess reliability.

Ship Name	Task Name	
SHIP 1	TASK	RESET SCREEN

2. Phase and Mission Duration Selection:

- Specify the phases and mission duration for the selected task.

Phase	Duration
<input type="checkbox"/> Harbour	100
<input type="checkbox"/> Entry Leaving Harbour	50
<input type="checkbox"/> Cruise	100
<input type="checkbox"/> Entry Leaving Harbour	30
<input type="checkbox"/> Harbour	20
<div>+ ADD ROWDELETE ROWSRECOMMEND SOLUTION</div>	

3. Recommendation Display:

- Click on the "Recommend Solution" button.
- A pop-up table will display Netras' recommended equipment for the chosen task.
- Simultaneously, a table with user-selected equipment for the specified phases will be visible.

Phase	Duration
<input type="checkbox"/> Harbour	100
<input type="checkbox"/> Entry Leaving Harbour	50
<input type="checkbox"/> Cruise	100
<input type="checkbox"/> Entry Leaving Harbour	30
<input type="checkbox"/> Harbour	20

+ ADD ROW
DELETE ROWS
RECOMMEND SOLUTION

Preferred Equipments	
Phase	Preferred Equipment
Harbour	GT 3, GT 2
Entry Leaving Harbour	GT 4, GT 2
Cruise	GT 3, GT 2
Entry Leaving Harbour	GT 3, GT 2
Harbour	GT 3, GT 2
TOTAL RELIABILITY: 0.77	

4. Equipment Selection:

- Choose the equipment for the task based on Netras' recommendations.
- If unsatisfied, manually select different equipment according to your requirements in the user-selected equipment table.

Preferred Equipments	
Phase	Preferred Equipment
Harbour	GT 3, GT 2
Entry Leaving Harbour	GT 4, GT 2
Cruise	GT 3, GT 2
Entry Leaving Harbour	GT 3, GT 2
Harbour	GT 3, GT 2
TOTAL RELIABILITY: 0.77	

Phase	Select Component for Phase
<input type="checkbox"/> Harbour	GT 3,GT 2
<input type="checkbox"/> Entry Leaving Harbour	GT 4,GT 2
<input type="checkbox"/> Cruise	GT 3,GT 2
<input type="checkbox"/> Entry Leaving Harbour	GT 3,GT 2
<input type="checkbox"/> Harbour	GT 3,GT 2

+ ADD THIS TASK FOR COMPARISON
CALCULATE RELIABILITY

5. Task Addition for Comparison:

- Click on "Add This Task for Comparison" after finalizing the equipment selection.

6. Repeat for Another Ship:

- If you want to compare the same task on another ship:
 - Create the same task for that ship.
 - Repeat steps 1-5 for the new ship.

7. Results Calculation:

- Click on the "Calculate Reliability" button, which will show stage-2 of the mission reliability dashboard i.e. result tables.

- Review the results, which presumably include a reliability assessment based on the chosen equipment and other parameters.

Ship Name

TASK

RESET SCREEN

X

Ship Name	Task Name	Reliability (User Selection)	Reliability (NETRA Recommendation)
SHIP 1	TASK	0.74	0.77

Ship Name	Task Name	Mission Type	Component/Mission Type	Reliability
SHIP 1	TASK	Harbour	Harbour	0.97
SHIP 1	TASK	Entry Leaving Harbour	Entry Leaving Harbour	0.96
SHIP 1	TASK	Cruise	Cruise	0.87