Appendix C

User Manual

C.1 Introduction

Thank you for choosing our tug boat scheduling system! In today's fast-paced shipping industry, tug boat management is key to ensuring safe and efficient operations. Our system is designed to be a one-stop solution for administrators, captains and schedulers so they can easily manage boat information, staff assignments, and inbound/outbound.

C.2 Full User Guide

The purpose of this guide is to provide you with account management guidance to help you make full use of the system's identity authentication, improve your work efficiency and management level. Whether you are a administrator, captain or scheduler, the following will provide you with detailed steps and tips to use.

• Login

Login is the first step to use our service, please enter your account number and password on the login page (Figure C.1) to enter the system.

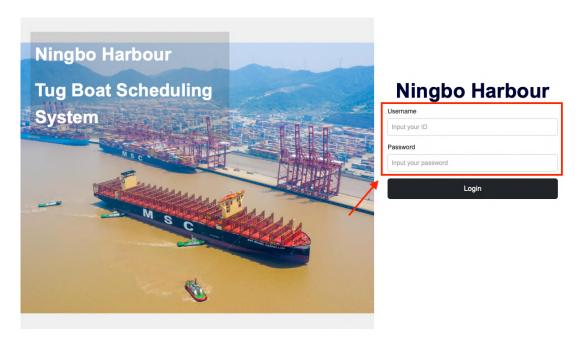


Figure C.1: Login Page

Before we get started, we offer some universal accounts for you to try out the system, and you can log in with the following credentials:

Administrator Account

- Username: ADMIN001

- **Password:** 12345678

Captain Account

- **Username:** CP0001 - CP0040

- **Password:** 12345678

Scheduler Account

- **Username:** SC0001 / SC0002

- **Password:** 12345678

• Logout

You can open your own account management page by clicking on "Settings" in the

bottom left corner of the page (Figure C.2). You can log out of the system by clicking the "Logout" button, which will automatically jump you back to the login page.

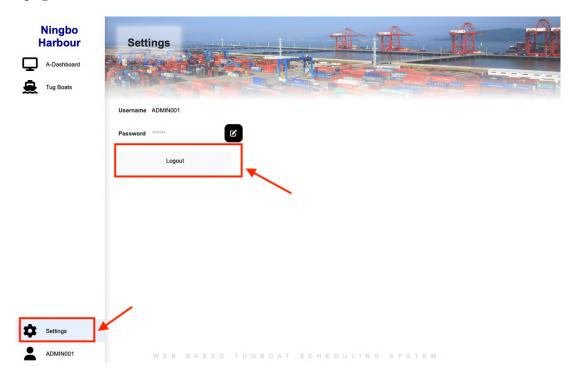


Figure C.2: Settings Page

• Password Modification

Click the "change" button to change your account password (Figure C.3). Please make sure that you have the same content in the new password and confirm the new password. After entering, click the "save" button at the bottom right to save your changes and jump back to the login interface.

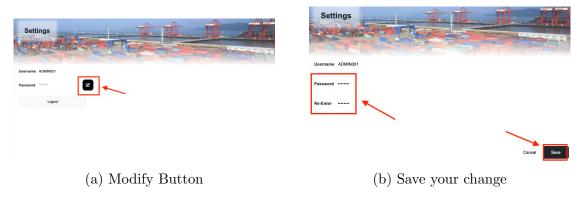


Figure C.3: Modify Password

If you want to interrupt the operation during the modification process, click the

"cancel" button (Figure C.4) in the lower right corner to exit the modification.



Figure C.4: Cancel Modification

C.3 Administrator

Welcome to use our tug boat scheduling system as an administrator! You have the highest authority over the system, and this user manual will guide you on how to effectively manage ship information and other user information.

• View All Captains & Schedulers

After logging into your administrator account, you will be presented with an administratoronly dashboard (Figure C.5) that displays information about all captains and schedulers in tables above and below respectively.

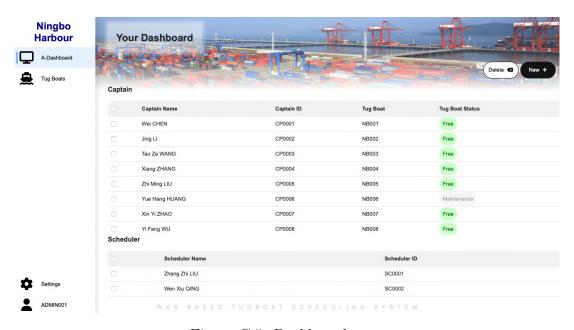


Figure C.5: Dashboard page

• Add a staff

You can add a New staff by clicking the "New+" button (Figure C.6) in the upper right corner of the dashboard and entering the staff information.

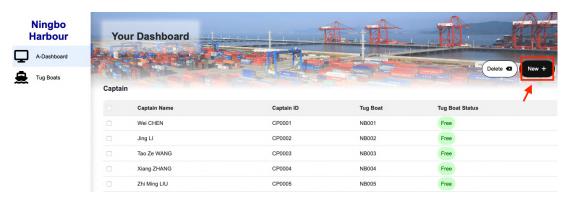


Figure C.6: Add button

You can save the new information by clicking on the Confirm button when you have finished entering.

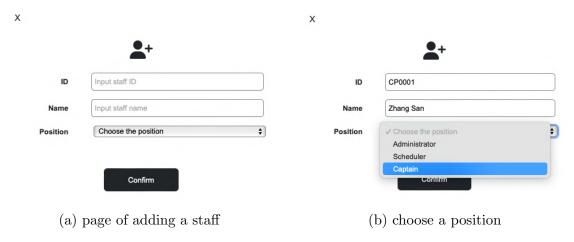
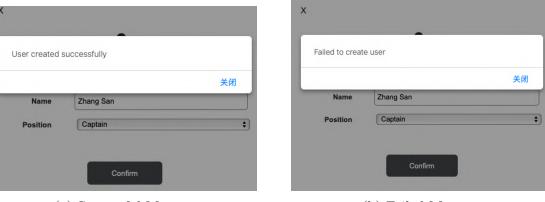


Figure C.7: Add a Staff

You can judge whether the addition is successful or not according to the system's prompt message (Figure C.18), displaying successful means that the new employee will appear in the table (Figure C.9), if displaying a failure then you need to recheck whether the information you have entered is incorrect or not.



(a) Successful Message

(b) Failed Message

Figure C.8: Pop Up Message

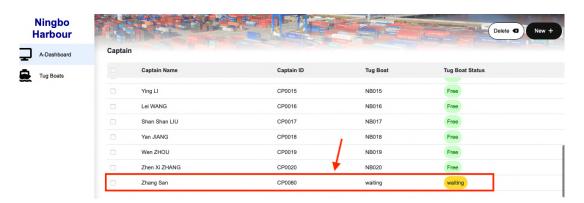


Figure C.9: Add successfully

• Delete Captains/Schedulers

You can delete any caption or scheduler by clicking on the box in front of the their entry to select the target employee and then clicking on the "delete" button on the top right.

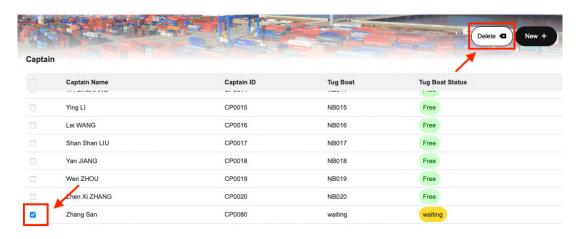


Figure C.10: Delete Captains/Schedulers

Secondary confirmation and successful deletion will be prompted (Figure C.11), and this deletion function supports batch selection.





(a) Secondary Confirmation Message

(b) Delete Successfully Message

Figure C.11: Pop Up Message

• View all tugboat information

Open and view the exclusive list of tug boats by clicking on "Tug Boats" (Figure C.12)in the navigation bar on the left side of the page. You can filter the tugs you want to view by clicking on the status bar at the top of the page.

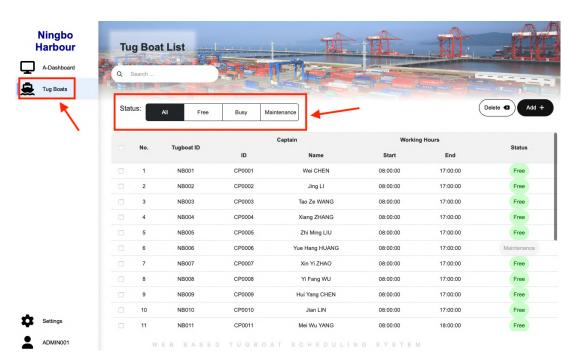


Figure C.12: Tug Boat List

• Add tugboat

You can add a New tug boat by clicking the "Add+" button (Figure C.13) in the upper right corner of the dashboard and entering the staff information.

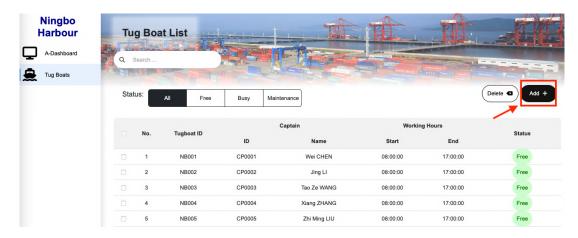


Figure C.13: Add button

You can save the new information by clicking on the Add button when you have finished entering.

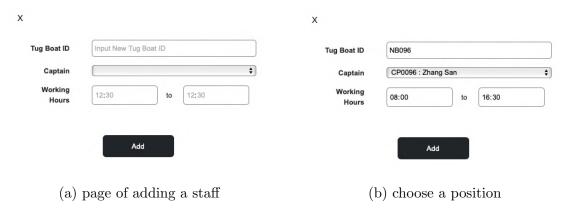
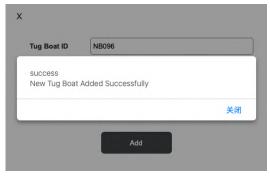
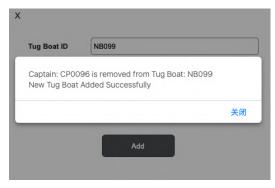


Figure C.14: Add a boat

You can judge whether the addition is successful or not according to the system's prompt message (Figure C.15), displaying successful means that the new employee will appear in the table (Figure C.16), When the system detects that the information you enter conflicts with the original information, the system automatically creates a new tug and updates the information.





(a) Successful Message

(b) Updated Message

Figure C.15: Pop Up Message

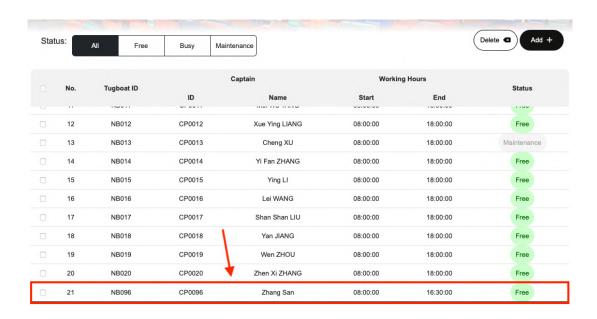


Figure C.16: Add boat successfully

• Delete tugboat

You can delete any tugboat by clicking on the box in front of the their entry to select the target boat and then clicking on the "delete" button on the top right.

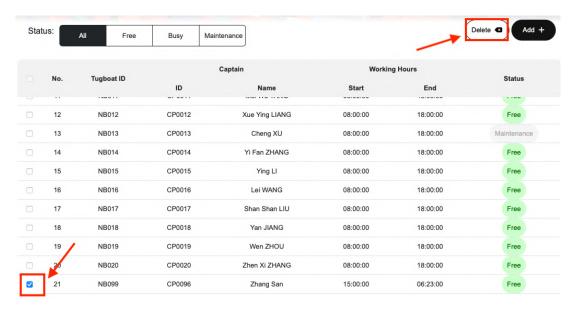


Figure C.17: Delete Boats

Secondary confirmation and successful deletion will be prompted (Figure C.18), and this deletion function supports batch selection.

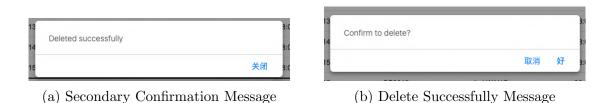


Figure C.18: Pop Up Message

• Edit tugboat information

You can edit the tugboat information by clicking directly on the tugboat (Figure C.19), Enter Press Enter to save your edits. You can change the working hours, working status of each tugboat and change the captain of each boat by changing the captain ID, the rest of the information cannot be changed.

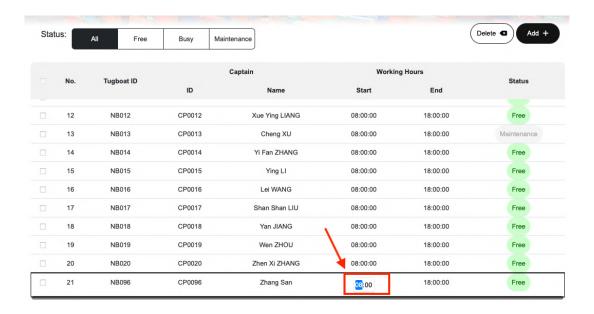


Figure C.19: Edit boat information

• Search tugboat

You can search for a specific tugboat by clicking on the search bar (Figure C.20) at the top of the page and entering the ID of the boat or the ID of the captain or the name of the captain, the list below will change according to the information you enter.



Figure C.20: Search boat

When you want to end your search and return to the overall list, click the close button (Figure C.21) to the right of the search bar or clear the search list.

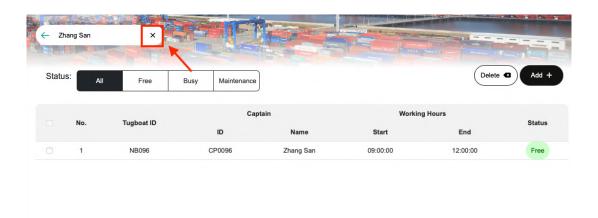


Figure C.21: Return to list

C.4 Captain

Welcome to the Ship Scheduling System User Manual! This manual is designed to provide captains with detailed instructions on how to use the ship scheduling system, enabling you to manage and schedule vessel trips with ease.

• View Captain's Works Today

After logging into your captain account, you will be presented with an captain-only dashboard (Figure C.22) that displays information about your works today.

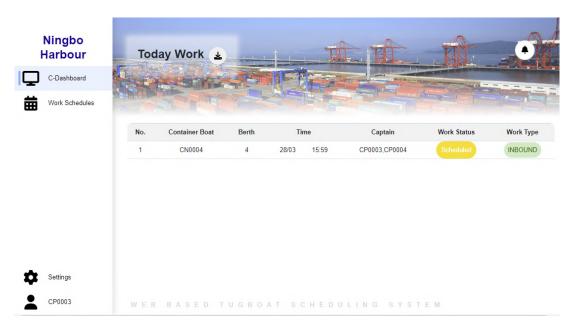


Figure C.22: Captain Dashboard page

• Download and Contact

By clicking Download button(Figure C.24a), you can download the information of the current page's tasks to your local device.

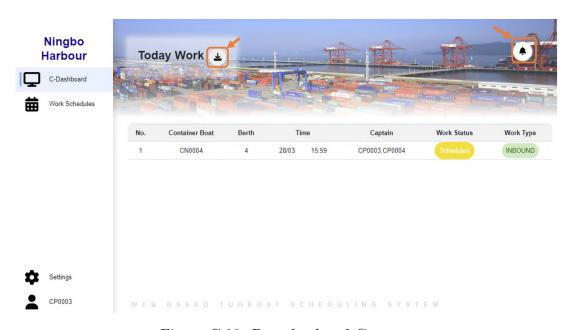
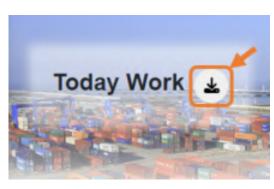


Figure C.23: Download and Contact





(a) Download Task Information

(b) Contact Scheduling Office

Figure C.24: Download and Contact Button

If the captain encounters any issues, including scheduling conflicts or other situations, they can contact the Ningbo Harbour General Scheduling Office by clicking this button (Figure C.24b).

C.5 Scheduler

Welcome to the Scheduler function! This part will help you familiarise yourself with how to effectively use the Scheduler function to manage crew scheduling and task allocation.

• Import Data

The dashboard will display a list of all daily tasks. You need to click the Import button at the top to import task information and tugboat information respectively to schedule and generate missions, the import task must be the current day data. You can filter the tasks by clicking the filter bar at the top.

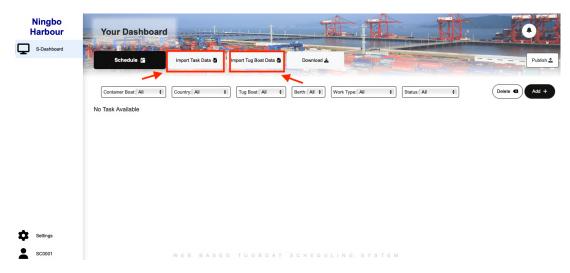


Figure C.25: Scheduler Dashboard

Import the information required by the task through the pop-up page (Figure C.26a). You can select Save or cancel by clicking the button in the lower right corner. If the import succeeds, a message (Figure C.26b) is displayed indicating that the import succeeds. Repeat import will cause submission failure.



Figure C.26: Pop Up Message

• Fully Automated Scheduling

You can automate scheduling by clicking the scheduling button at the top of the dashboard, and the task progress will be displayed as a (Figure C.27a) progress bar.

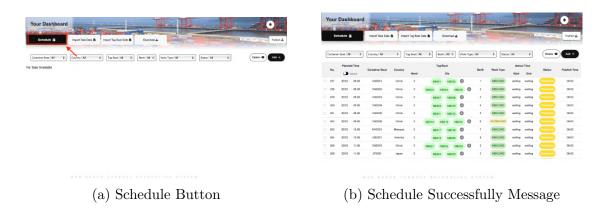


Figure C.27: Pop Up Message

• Semi-automated Scheduling

You can add tasks by clicking the Add button in the upper right corner or click the box in front of the taskbar to select and delete them, and each task information can be directly clicked to modify. When you have finished the modification work, re-click the schedule button and the system will keep your changes and re-schedule to achieve semi-automatic function.

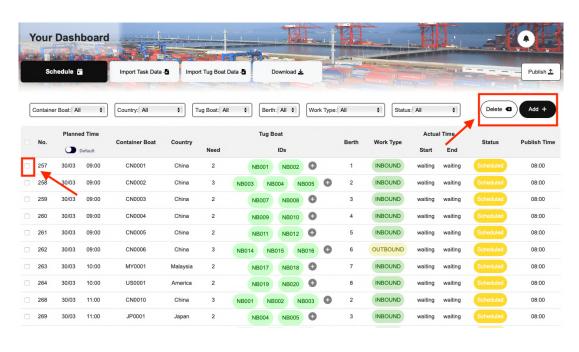


Figure C.28: Add or Delete

After filling in all the information, you can choose to save or cancel the operation through the button in the lower right corner, and the system will directly prompt you whether you need to reschedule.

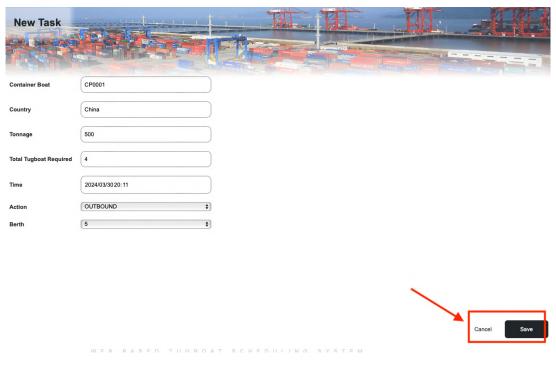


Figure C.29: Save or Cancel

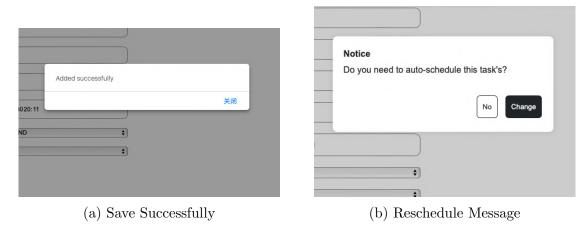


Figure C.30: Pop Up Message

• Publish

You can publish the quest information by clicking the "Publish" button (Figure C.31) on the top right of the dashboard, and all Captain users will receive the daily quest after you publish.

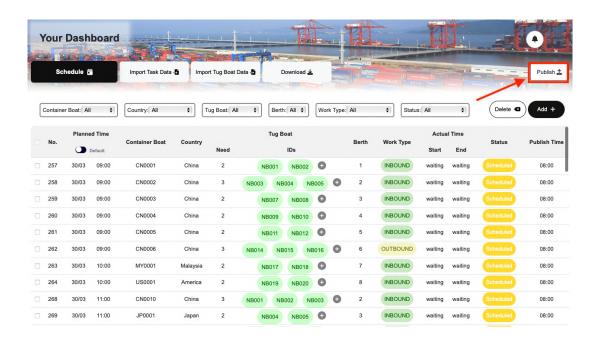


Figure C.31: Publish

• Download and Contact

You can download the entire task list to your local device by clicking the Download button above the dashboard.

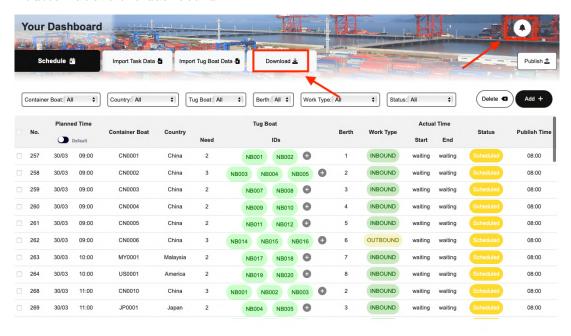


Figure C.32: Download and Contact

If you encounter any problems, please contact the system maintenance staff by

clicking on the call button at the top right.