



NAVE SHIP
TECHNOLOGY ABOARD

Soul, voice and intelligence aboard your ship.

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NAVESHIP



NAVESHIP IS A SOFTWARE FOR YACHT, MEGA YACHT, CRUISE SHIPS, CARGOS AND OTHER COMMERCIAL SHIPS.

IT USES AN ARTIFICIAL INTELLIGENCE IN A NATURAL LANGUAGE FOR THE MANAGEMENT OF THE SHIP.

You ask, NAVESHIP answers. You dictate, NAVESHIP records, you order, NAVESHIP executes.

We digitize every information, we generate millions of questions, we schematize everything on Excel sheets, we process the data and we make it available in real time.

All of this, **completely customizable** for each and every ship and owner.

Designed and created by professionals in the sector, NAVESHIP intends to revolutionize the nautical market.

Each boat has its own identity and history: we offer a tool capable of adapting to any ship and able

to simplify the management of the boat at 360 degrees.

You can use NAVESHIP for on-board home automation and to obtain information from the helm station. It allows the owner, the management and the captain to monitor and optimize the costs, to manage the maintenance, the suppliers, the crew and much more.

NAVESHIP, thanks to its incredible user experience, makes it easier to create a catalog of all the useful information. Not only regarding the warehouses, but also the procedures, the check lists, the risk assessments, the management of preferences, the notes and the information of any kind.

It generates certified data from on-board devices and it processes them on worksheets, making them available at any time.

It thus offers a complete view of the real condition of the ship. All useful data also during the sales phases.

NAVESHIP is everywhere. With the app, you can monitor your ship, its vital parameters, the notes, the accounts, the life on board and so much more at any given time.

NAVESHIP does not need any internet connection to work, but only to enjoy some features, such as the artificial intelligence upgrade, the expansion of the on-board dictionaries or the need to retrieve data from the web.



ARTIFICIAL INTELLIGENCE

NAVESHIP USES A NATURAL LANGUAGE SOFTWARE AVAILABLE FOR DESKTOP AND MOBILE, ABLE TO INTERACT WITH THE ENVIRONMENT (IOT).

The innovative and differentiating factor of NAVESHIP is its **incredible user experience**.

NAVESHIP offers you an intelligence created ad hoc for each and every boat. **It can be installed on any commercial ship and yacht, both sailing and motor, from 10 meters up to over 100 meters.**

The software can have the name of the boat to be invoked and it effectively becomes the most important member of your crew, with all the info regarding the life of the ship.

A small and space-saving, clean and elegant object, which does not reveal the great engineering found inside.

NAVESHIP is a **software that evolves over the years** and, thanks to a sophisticated algorithm, it learns how to respond just like the person who instructed it. NAVESHIP's engine is light enough to be ported to IoT devices. This allows you to create the voice interfaces even in the environments without any internet connection, therefore, not suitable for commercial voice devices (Google Home or Amazon Alexa), such as the hold of a yacht.

The integration of home automation functions simplifies the life of the owner, the crew and the maintenance staff of the yacht, as well as making the guest experience more interesting and interactive.

NAVESHIP is a revolutionary tool for both safety and a 360-degree management of the boat.

We will provide APIs that will allow the shipyard technology partners to integrate the control room instruments with NAVESHIP, so that it can answer questions regarding the onboard instrumentation.

The natural language engine can be instructed for any conversation in several languages.

The crew has a revolutionary tool at their disposal, both for the on-board safety and for the ship management.

TECHNOLOGY

MEMORI is the brain of NAVESHIP and, based on proprietary language recognition algorithms (NLP), it can create conversations according to different models. From the simple question / answer to a conversation based on your services and on third party API.

The whole heart of Memori is focused on the natural language processing:
A sophisticated state machine handles the conversation, while its database categorizes the set of questions and answers that make up its memory.

The integration with external services allows you to extend its basic logic by creating ad hoc conversations and applications.



CATALOGS

LOGBOOK

WAREHOUSE

CHECKLIST SECURITY, EMERGENCIES

OWNER

MANUFACTURER

REGULATIONS, DIRECTIVES, DEFINITIONS

LOGBOOK

YOU CREATE A VOICE LOGBOOK AND NAVESHIP AUTOMATICALLY CREATES AN ELECTRONIC DATABASE: A WORKSHEET WITH DATA, PRINTABLE AND EDITABLE VIA WEB, VIA APP OR NATURALLY BY VOICE.

Example:

CAPTAIN: Ship, record logbook. Confirmation.

SHIP: Recording the logbook on the current date and time, proceed.

CAPTAIN: Departure at 09.00, port of Montecarlo, 12 guests, 23 crew, excellent weather conditions, direction Barcelona, 270 degree course, speed 13 knots, calm wind.

SHIP: Confirm or modify.

CAPTAIN: Confirm the registration.

All the information created on the same day by the staff in the various compartments of the yacht will be added to the logbook note. For example, on 12 July 2020, the captain recorded anomalies in the electronics PLCs and adverse weather conditions.

In the Engine Room, the chief engineer updated the spare parts database, a piece of the exhaust was changed and some material purchased through e-commerce.

The result we get is a complete daily logbook, with the entire on-board life of the staff recording every important action to report.

When NAVESHIP is connected to the on-board instrumentation, we will also collect the vital data of the ship: engines, generators, electricity, alarms, and levels. The logbook will be endorsed by the captain after 24 hours for further confirmation. Traces of the original recordings will remain as evidence for eventual problems on board. In other words, NAVESHIP works like a black box: all the data is collected in the cloud with an end-to-end technology.

WAREHOUSE

BY DEFAULT, THE SOFTWARE WILL HAVE THE FOLLOWING CATEGORIES: ENGINE ROOM, DECK, FOOD, INTERIOR, AND WHEELHOUSE. IT IS CUSTOMIZABLE, SO THAT EVERY SHIP CAN CHANGE THE WORKSHEET BY ADDING OR REMOVING OTHER SETTINGS OF ONE'S CHOICE.

Dedicated sections can be created for each category.

For example, if the Chief Engineer wants to update the spare parts catalog:

MACHINE DIRECTOR: Ship, Start the machine room warehouse update procedure.

SHIP: Confirmation, start of the machine room warehouse update procedure to the current day and time.

MACHINE MANAGER: I confirm, thank you. Section: right motor, Product: Coulant pump,

EAN code: Y44534T, Quantity, +1, Please confirm.

SHIP: Engine room warehouse update, right engine, Coulant pump, EAN code Y44534T, quantity: + 1.

Confirmed.

NAVESHIP records the note and processes the following data on an Excel sheet:

MENU: WAREHOUSE

CATEGORY: Engine room

SECTION: Right engine

PRODUCT: Coulant pump

EAN: 234234-5

QUANTITY: +1 (it will be added or removed automatically from the spare parts account)

DATA (automatic data)

REFERENT: automatic

From this operation an Excel worksheet is automatically created in which we can quickly catalog everything. This way you save time to open a PC, create an Excel, process it, update it etc. You can do it anywhere and you can also update via web and app whenever you like. You have everything cataloged and every account always available. If you also have the EAN code of the product when entering the data, register it, otherwise you can enter it later via the app. When you request an information on warehouses, you can take advantage of, in addition to direct answers from artificial intelligence, a spreadsheet and a page in your cloud with the reports and the data of the whole ship. All cataloged, ordered and all updated.

CHECK LIST, SAFETY, EMERGENCIES

CREATE OR UPDATE CONTROL PROCEDURES FOR YOUR SHIP: DEADLINES, MECHANICAL EQUIPMENT, DOCUMENTS, RISK ASSESSMENT. CREATE OR UPDATE SAFETY AND EMERGENCY PROCEDURES FOR YOUR SHIP.

We connect, for each type of procedure, the catalog of the regulations - norms - directives (COLREG, IMO, MCA, SOLAS, MARPOL). This way, when you interact with NAVESHIP, for each specific topic you can have a wide range of information.

For example, if the Chief Engineer wants to create a Check List procedure:

MACHINE MANAGER: Ship, start the Check List creation procedure, Safety, Deck, Bow Crane.

SHIP: Confirmation of Check List creation procedure, Safety, Deck, Bow Crane.

MACHINE DIRECTOR: I confirm. Record: to use the Bow Crane it is necessary to check and proceed in four steps: 1- remove the safety catch anchored on the deck with the appropriate steel shackle. 2- Switch on the Crane using the remote control and check for the green light on the panel. 3- Make sure that no one is in a dangerous position. 4- Lift the mechanical arm by clicking the button with the green arrow pointing upwards.

SHIP: Bow davit procedure update confirmed.

NAVESHIP will record the CHECK LIST and process the following data on an Excel sheet:

MENU: CHECK LIST

CATEGORY: SAFETY

SECTION: DECK

PRODUCT: BOW CRANE

PROCEDURE: To use the Bow Crane it is necessary to check and proceed in four phases: 1-Remove the safety catch anchored on the deck with the appropriate steel shackle. 2- Switch on the Crane using the remote control

and check for the green light on the panel. 3- Make sure that no one is in a dangerous position. 4- Lift the mechanical arm by clicking the button with the green upward arrow.

PRODUCT: BOW CRANE

PROCEDURE: To use the Bow Crane it is necessary to check and proceed in four phases: 1-Remove the safety catch anchored on the deck with the appropriate steel shackle. 2- Switch on the Crane using the remote control and check for the green light on the panel. 3- Make sure that no one is in a dangerous position. 4- Lift the mechanical arm by clicking the button with the green upward arrow.

DATE: (automatic data)

REFERENT: automatic

Check Lists can be created for every need. This helps keep the ship tidy and safe.

Check Lists for safety procedures, for daily equipment checks, monthly and annual checks for all the ship's equipment, wherever they are located. A sheet is created with the check lists, documents checked, inspections carried out.

Check Lists to control the Deck, Command Bridge or Engine Room compartment, for the Captain's documentation, for the supplies, etc.

Check Lists for the procedures on how to use the on-board equipment, emergency checklist, drills and procedures.

OWNER

THE OWNER HAS A MASTER ACCOUNT AND CAN ACCESS ALL THE AREAS AND ALL THE DATA OF YOUR SHIP. THE OWNER CAN CREATE AND UPDATE THEIR PREFERENCES, THOSE OF THEIR FAMILY, FRIENDS OR RELATIVES, THEY CAN CREATE AND UPDATE NOTES OF ALL KINDS.

NAVESHIP helps you to command and manage your boat to the fullest. Whatever problem you will face, NAVESHIP will be at your side and it will support you with all the information and procedures useful to solve the situation.

NAVESHIP offers its owner the most complete and transparent **management software** ever.

We catalog every single preference of the owner and of his guests. You can have a catalog of Charter guests who will be able to access NAVESHIP via the app and enter musical tastes, eating habits and preferences of all kinds before departure. Organization is vital to offer the **best service**.

MANUFACTURER

WE DIGITIZE ALL THE MANUFACTURER MANUALS, WE UPLOAD THEM AND WE GENERATE QUESTIONS AND ANSWERS ABOUT THE SHIP'S SYSTEMS, MECHANICS, HYDRAULICS, SUPPLIERS, CONTACTS AND ASSISTANCE.

You can ask for any information about any equipment installed on board, ask for the number of the suppliers or ask how to carry out a diagnostic of the error codes from the generator control unit.

Furthermore, during the construction phase, each installer will answer questions about the installed product, which will be cataloged and subsequently listened to upon request. Right from construction, the intelligence learns every single note that is imparted, creating an exponential value over time. NAVESHIP transforms everything you say in manageable and organized data.

REGULATIONS, STANDARDS, DIRECTIVES, DEFINITIONS

WE DIGITIZE ALL IMO, COLREG, MCA, SOLAS, MARPOL AND OTHER MANUALS. WE LOAD THEM AND GENERATE QUESTIONS AND ANSWERS INHERENT TO BUROCRATIC PRACTICES, SAFETY PROCEDURES, REGULATIONS AND LAWS IN FORCE.

For example:

1 SHIP, DEFINE GMDSS?

SHIP: The worldwide rescue and safety system at sea, also known internationally by the acronym GMDSS (from the English Global Maritime Distress Safety System), is a global coverage radio communications system conceived for maritime safety, which also integrates telecommunication functions, and allows to send and receive messages in real time.

SHIP: Is there anything else you would like to know?

SAILOR: No, thank you.

2 SHIP, WHEN DO THE LIFE RAFT EXPIRE?

SHIP: The rafts expire on February 18, 2022. Do you want to know the legislation?

CAPTAIN: Yes, I confirm.

SHIP: The overhaul of the life rafts must be carried out periodically, according to the indications and methods established by the law.

The overhaul of life rafts over 12 miles must be done every 2 years. "Ordinary type auditing" are alternated with "extraordinary auditing", so the first overhaul (2 years after purchase) will be an ordinary overhaul, the second (in the fourth year of life of the raft) will be an extraordinary overhaul, the third (6 years after purchase) will be an ordinary revision and so on.

You can check the year of the manufacture on the raft itself or on the annexed certificate.

SHIP: Is there anything else you want to know?

CAPTAIN: No, thank you.



STRENGTHS

SAFETY

A simple way to have all the safety procedures always at hand.
NAVESHIP helps you to always be prepared, informed and updated.

MANAGEMENT

With NAVESHIP you can always have all the data and the information of the ship, easily manage the home automation on board and comfortably handle the bureaucratic operations.

INNOVATION

The innovation of this product is unprecedented in terms of features and usability. It can integrate on every boat, it assists you on all your requests, it facilitates and it speeds up eventual operations.

ENTERTAINMENT

It is a fully customizable product, capable of integrating with the on-board entertainment equipment and simplifying the owner's work.

SPEED

A simple, fast and practical way to collect data, update warehouses, restock, study cash flows, income and expenses.

NAVESHIP CUSTOMIZATION

NAVESHIP never stops learning. Its ability to adapt to the customer is almost unlimited.

VALUE

Your boat acquires value thanks to the cataloging of all information and the control of your flows.
We collect all the data and the information that are also very useful for the sales phases.



THE SOFTWARE IN BRIEF

THE NAVESHIP PROJECT BASED ON MEMORI.AI INTELLIGENCE IS ABLE TO OFFER AN INTELLIGENCE ON A SHIP SCHEME, CREATED AD HOC FOR EVERY VESSEL. THE SHIP SCHEME WILL INCLUDE THE FOLLOWING FEATURES:

- AD HOC CONVERSATION
- UNLIMITED QUESTION / ANSWER
- SOFTWARE UPDATES
- REMOTE ASSISTANCE
- FULL COVERAGE DEVICE
- LCD
- CLOUD
- OFFLINE VOICE
- GOOGLE HOME INTEGRATION
- LOGBOOK CATALOG
- WAREHOUSE CATALOG
- CHECK LIST, SECURITY, EMERGENCIES CATALOG
- OWNER CATALOG
- MANUFACTURER CATALOG
- CATALOG OF REGULATIONS, STANDARDS, DIRECTIVES, DEFINITIONS
- FAQ - LEARNING PROCEDURES
- INSTALLATION ON BOARD
- MULTILINGUAL CATALOG
- API FOR DASHBOARD DEVICES DEVELOPMENT
- API FOR HOME AUTOMATION EQUIPMENT DEVELOPMENT

FEATURES

AD HOC CONVERSATION

Agreed upon conversations that allow you to create a historical data.

Example:

This conversation takes place on 12 July 2020 at 11.00 pm:

Person: Ship, marks that we are proceeding at a speed of xx knots and that the instrument marks xx knots.

Ship: Perfect, I have registered.

Person: - What did the instrument mark on July 12, 2020 at 11pm?

Ship: - On 12 July 2020 at 11.00 pm, the instrument marked XX and we were proceeding at a speed of xx knots.

In general, we can prepare and arrange in advance together different types of conversations in order to instruct the Memori of the ship.

QUESTION / ANSWER

NAVESHIP can be instructed with questions and answers orally or through a data source that already prepares questions and answers. It can then release the answers through its own linguistic recognition algorithms, so that it can be interrogated in natural language and give all the information previously entered.

Some content may be linked exclusively to certain people, and they may present themselves through a card or an object, in order to receive the contents meant for them.

OFFLINE VOICE

The installation will also include an onboard computer that will allow you to manage the conversations on a local network, so that there's no need for a web connection. You can later synchronize the information left offline with the online version.

GOOGLE HOME INTEGRATION

The contents recorded on board can also be displayed on a voice application that can be interrogated by Google Home or Google Assistant on the phone.

DEVICE

Up to 15 voice devices included. Additional devices for ships over 40 meters have an extra cost. Each of our devices is supported by continuous software updates that allow you to improve its functionality over time.

CLOUD

One year of end-to-end encrypted cloud for 15 voice devices. Afterwards, the service costs for each language will be calculated every year (also with the possibility of a discounted annual payment). The subscription includes the AI Online software, cloud and on-board software maintenance of the device (remotely upgradeable).

API FOR DEVELOPING DASHBOARD AND HOME AUTOMATION EQUIPMENT

Useful services will be developed and presented to be communicated to the instrumentation manufacturers so that they can eventually use them to communicate with NAVESHIP. Useful services will also be offered to integrate any home automation device and any simple action that can be controlled via voice. Whenever the services are not enough, ad hoc developments will be agreed upon to allow any tool to interface with NAVESHIP.

LCD

NAVESHIP has an interface that works on computers and monitors that integrates the Google Chrome browser. We can therefore hypothesize to use existing monitors on board, with these characteristics, to test the operation and setup a shortcut on the desktop to start it. These monitors are not manufactured by us and, if not present on board, will be sold at market price.

WHO WE ARE

WE ARE A YOUNG AND AMBITIOUS START UP. OVER THE YEARS BOTH OF US WITH OUR RESPECTIVE TEAMS HAVE DEVELOPED IMPORTANT FACILITY FOR THE ENTERTAINMENT OF THE WORLDWIDE WEB COMMUNITY. WE ARE A TEAM OF TALENTED PROFESSIONALS WITH A WIDE RANGE OF SKILLS AND EXPERIENCES AND A NETWORK OF ENGINEERS AND PROFESSIONALS WITH WHOM WE ACTIVELY COLLABORATE.

WE LOVE OUR JOB AND WE DO IT WITH PASSION.

Giorgio Serantoni

NAVESHIP CEO

He took his first steps in the nautical world in 1994 during breaks from his studies and he became a professional in the world of yachting in 2006. His Crossing profile allows him to become a digital entrepreneur with over 11 years of experience in the apps sector. He has developed important apps related to the world of music, of work and commerce.

Nunzio Fiore

CEO MEMORI SRL

Developer and entrepreneur with over 20 years of experience in the sector, the last years of his professional life were completely dedicated to the study and to the development of artificial intelligences.



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