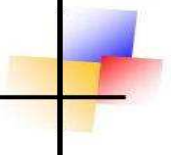


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# Web software application for Warehouses in construction sites



Web software  
application for  
Warehouses in  
construction sites



## The system

This application software has been developed to solve problems connected to the warehouse management in construction sites.

This software allows companies to

- ✓ schedule
- ✓ purchase
- ✓ store
- ✓ take the stock
- ✓ manage
- ✓ check

warehouses in construction sites.

This is a leading-edge application both in terms of software design than communication technologies. It is completely compatible with our “ERP” (Enterprise Resource Planning) system called “E.G.G.s.web” (Enterprise Governance Global solution.web) which is:

- ✓ *new*: it has been designed with Java “web” technology so it can be used both in the “internet” than in the “intranet”. The company can communicate in real time with all authorized users, working both inside (employees) than outside of the company (agents, resellers, customers, suppliers, third parties and so on)
- ✓ *simple*: it has been designed to be user-friendly, intuitive and it is supplied with an online manual.
- ✓ *safe*: it has been designed to allow different security policies so that information can be safely transferred also using the “internet”
- ✓ *modular*: the system is composed by different modules, linked with each others but autonomous and that can be progressively implemented in time
- ✓ *flexible*: it has been designed with a “scalar” technology: the system can follow the corporate growth and adapt itself to new corporate needs in the future
- ✓ *parametric*: the system has been designed to be easily updated: operators can change by themselves functional features in the system structure with no need of a programmer
- ✓ *conservative*: it has been designed to use the most common operating systems than databases. The company can use its own hardware devices and data.
- ✓ *multi-company, multi-store, multi-department*: the system has been designed to communicate with the outside. Operators can work with different companies, languages and currencies at the same time.



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Fundamental components of the whole structure are

- ✓ barcode tags (item identifier)
- ✓ barcode reader (handheld terminal)

Tags can be stitched on items or near them (in case of sable, gravel or...), and they identify univocally the physical object (the item) and the "electronic" one (its code). This link between "item-code" is the core part of the system and it allows the company to achieve the fundamental benefits of this application

- ✓ reduce operator errors
- ✓ reduce the operational time needed for data collection
- ✓ display in real time the "status" of the construction site

The barcode tag stitched on the item is read when materials come into the warehouse and so they are automatically loaded in the construction site warehouse. After that, barcode tags are read just when materials must be picked up for their use and automatically unloaded from the warehouse.

Operators have not to be IT experts: your current software structure is completely saved and this system can be "attached" to it so that operators can start to use the system very quickly and easily.



The system takes advantage of a series of handheld terminals, equipped with an optical reader and connected in radiofrequency. Operators use them to be informed about activities to perform and they can at the same time communicate in real time the progress of their activities.

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### benefits

This software application improves all activities in the warehouse of construction sites and it allows operators to

- ✓ *avoid “data rewriting”*: handheld terminals supplied to operators collect data that are no more written on a piece of paper but that are transferred directly to the “central system” with no need of a further data rewriting by people in the head office
- ✓ *avoid errors*: the fact that data must not be written up and they are suggested by the handheld terminal, limits strongly final errors. The use of handheld terminals and “bar codes” allows operators to check constantly activity correctness.
- ✓ *avoid wastes of time*: the fact that data must not be written up and they are suggested by the handheld terminal, limits strongly wastes of time. Automatism in the information structure (for example: contracts, interventions, availability and so on) avoid both searches than unuseful wastes of time due to manuality
- ✓ *avoid operator costs*: no data rewriting means also no need of people involved in such activities
- ✓ *avoid manual checks*: handheld terminals allow real-time checks to data collected by operators. Further checks can be done in the head office.
- ✓ *check operator activities*: the company can monitor operator activities looking at the progress of technical interventions and production as well as working hours stated by the operators themselves.
- ✓ *improve operator productivity*: automatism in the information structure make operators more confident and productive and so they are less subject to errors or wastes of time
- ✓ *minimize time needed to take the stock*: operators can take a complete or partial stock of the warehouse whenever they want since they can display a possible stock on their handheld terminals and change it in function of the real one.
- ✓ *minimize time needed for material request*: usually operators evaluate by sight what needs to be ordered. With the barcode reader, they can identify the item, digit the requested quantity and then automatically issue material requests
- ✓ *minimize the time needed to declare consumptions*: the system allows operators to pick up materials they need from the warehouse, read the related barcode tags with their readers, identify them and then digit the quantity that have been picked up. Then the system automatically unloads the warehouse.



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- ✓ *reduce costs*: the system helps the company to avoid errors and wastes of time as well as to reduce costs since all wastes can be recorded by the system and so corrected by the company.
- ✓ *trace and backtrace*: data collection for materials handling is the base to trace and backtrace materials
- ✓ *consult information using the Internet*: operators, customers and suppliers can consult in real time all information they need using the Internet if they are authorized to.
- ✓ *dialogue with any operational system*: the handheld terminal “data base” and the operational database in the company can exchange information in a bidirectional way, improving times and results of both information structures

This simple and effective software speeds up and makes operator job easier, allowing the company to

- optimize the operational speed, checks and information
  - improve corporate service
  - reduce costs



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## Features

Principles followed in the design and implementation of this software application are

- it must be suitable for different corporate realities
- it must be user friendly
- information must be consistent

For this reason it has the following modules:

- ✓ *security*: the system can be completely configured by the company in terms of administration of access policies. The system administrator can define and manage operator groups and operators, defining information and structures they can display and the default settings for every operator or group
- ✓ *integration with your own management software*: this structure can be integrated with your own management software as well as with our new web management software called "EGGs.web". Modules that can be integrated can be tax accounting, management check, "business intelligence" applications, quality system applications, traceability, and so on
- ✓ *multi-company and multi-warehouse*: this software is multi-corporate and multi-warehouse in order to manage different corporate realities
- ✓ *goods inward movements*: the system allows operators to manage operations related to goods inward in the warehouse. Materials can be read, identified and then stored in a proper location
- ✓ *internal movements*: this system allows operators to manage in real time and automatically all movements in the warehouse due to
  - transfers
  - groupings
  - inventory for item
  - inventory for locationall operations can be monitored in real time
- ✓ *goods outward*: the system allows operators to manage in real time and automatically goods outwards from the warehouse due to
  - use
  - returns
  - returns in the head office



COMPANY WITH QUALITY MANAGEMENT  
SYSTEM CERTIFIED BY DNV  
= ISO 9001:2008 =

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Share capital € 50.000 fully paid-up

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## configuration

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- ✓ platform
  - operating system : Windows, Unix, Solaris, Linux
  - development language : Java
  - DBMS : My Sql/Sql Server/Oracle

