On-line booking system with Spago

TIRRENIA NAVIGAZIONE DEVELOPS AND DEPLOYS ITS BOOKING SYSTEMS WITH THE SPAGO FRAMEWORK

Key Words:
- J2EE
- Web Services
- Cluster environment
- Public transports

The Spago framework supports the development of the Passengers Booking and Goods Booking application for Tirrenia Navigazione S.p.A..

Tirrenia Navigazione S.p.A.
Tirrenia Navigazione is one of the major European ship owning companies. With its fleet of near 90 ships, each year the group makes near 100,000 trips, covers 3 million miles, transports 2 million cars and hosts 12 millions passengers.

The Need for the on-line booking system
To realize a web based managerial and transactional application in order to replace the existing booking procedures based on CICS platform.

The system has been designed and conceived in order to cover the requirements of all companies belonging to Tirrenia Group, to improve their workgroup activities and to facilitate business strategies within them.

The guidelines for the definition of the architecture have been: reliability, robustness, high service availability and good response times.
**The Architecture of the on-line booking system**

The new Tirrenia booking system is compliant with the “three tier” architecture model; its services can be accessed by:

- Tirrenia group employees
- Travel agencies connected through Internet and GDS
- external portals and applications
- private customers

by means of the following protocols:

- http and https on Intranet and Internet
- web services SOAP protocol for GDS and portals.

**The Results**

The use of the Spago framework provided the following advantages:

- The same component can be written once and exposed by different interfaces and protocols (HTTP, EJB, SOAP).
- All components can be easily distributed in a clustered environment.
- Security mechanisms are available in the Spago framework.

**Professional Support**

- Engineering Ingegneria Informatica is the core developer of the Spago framework and the system integrator of the solution for Tirrenia Navigazione S.p.A..
- Tirrenia Navigazione S.p.A. provides the technical environment and the domain competence.

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