



Architettura

A custom framework for web applications

Why a custom framework?



- Historical reasons:
 - We have developed and maintain the majority of the key applications for the city Administration: population registry, management of the records, finance management, ...
 - We won't to be forced to throw away our applications; innovation is introduced as needed, and must be fully integrated with legacy.
 - Trento has a strong internal expertise: the IT department counts more than 30 people, many of them working full time as sw developers.

Why a custom framework?

(continued)



- **Strategical reasons:**
 - We need the maximum flexibility, and we have to fully understand the behavior of our systems
 - Cutting costs 1: the framework was not built from scratch, but customizing a well known Open Source one (**Struts**, from Apache-Jakarta group)
 - Cutting Cost 2: we do not want to depend from commercial suppliers for upgrades, ecc.
 - Continuity: we want to choose ourselves when to introduce new features, and to dismiss the old ones.

Features



- The main target users are internal employees:
Authentication - authorization database unified with legacy one - any other scheme possible.
- Rapid Application Development: leveraging on custom JSP tags technology.
- Rapid Application Development: developers use Eclipse IDE with embedded CVS versioning system, and many customizations to speed repetitive tasks. Strong Java expertise is NOT required.
- Completely open sourced: the main building blocks are free (both in the “free beer” meaning and in freedom one).

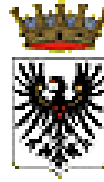
Features

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- DB is the data source and long term repository; database independence is assured provided that it is JDBC enabled.
- Dynamic generation of documents and printings.
- Using the web browser as interface enables using the framework both for employees applications and for eGovernment services, enhancing code reuse.
- We limit the amount of javascript client code by design to reduce browser dependency; all applications are required to work with the two major browser software.

Live demo



- Several application already deployed, working almost seamlessly under Linux and Windows server platform.
- Switching to Linux server under High Availability hardware already ongoing.
- Live demo of some applications.
- Try yourself!
 - http://webapps.comune.trento.it/ark_example