KNOWLEDGE BASE AND CMS INTEGRATION

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OUR GOALS

• Record and process knowledge

• Manage huge number of reports referring to data mining sessions

• Interact with semantic knowledge sources
OUR APPROACH

We designed data mining web portal based on CMS (Joomla!) interacting with Ontopia Knowledge Suite together called SEWEBAR-CMS.

Analytical reports are created within CMS with possibilities of entering (semi-)auto generated structured data.
LOAD LOCAL SOURCES

- Data mining results exported in PMML
- PMMLs are imported into CMS as XML based articles
- Picking relevant segments and transform them into HTML
REMOTE SOURCES

Administrator defines:

• Links to queriable resources
• Queries for these resources
• XSLT transformations from native form into HTML
Analytical report is combination of free text and linked fragments

Importing fragments is supported by UI
ANALYTICAL REPORT
STATUS

• native XML DB (Berkeley) and XQuery
• Ontopia Knowledge Suite with tolog queries
• SPARQL endpoints (proof of concept)