Transforming the students community into a social network

Paper 14  Topic  Social Media in Universities
SIGMA Gestión Universitaria
SIS & CRIS Core Solutions
Technology & Innovation
PIZARRA Mobile Social App
The Company

SIGMA is a non-for-profit consortium established in 1996, and owned by 8 top level Spanish Public Universities, to provide technological solutions for students, learning and research management processes.

SIGMA focuses the development and support of two main best of breed suites of solutions:

SIGMA Student Information System
ARGOS Research Information System
SIGMA represents the 20% of the students in the Spanish Public university system, with institutions all across the country.
SIGMA Gestión Universitaria
SIS & CRIS Core Solutions
Technology & Innovation
PIZARRA Mobile Social App
Suite SIGMA SIS & L3
Students Information System

Students
- Academic Student life cycle
  - Degree Master Doctorate
    - Syllabus
    - Recruitment
    - Enrollment
    - Grants
    - Fees and Financials Integration
    - Gradebook
    - Mobility
    - Degrees
    - Mobile Apps

Resources
- Resource Planning
  - Courses
  - Teachers
  - Spaces
  - Timetables
  - Allocations
  - Learning Groups
  - eLearning Virtual Campus
  - Quality Surveys
  - HR Integration

Life long Learning
- Specific Academic Student life cycle
  - Institution non official Postgraduate Programs
Suite CRIS ARGOS
Research Information System

Management
- Calls and applications management
- Research grants
- Agreements and renewals
- Contracts & Patents
- R&D Projects
- Master data management

Production
- Scientific production activity
  - Friendly Researcher front end
  - Back office Validation
- Curriculum management

Promotion
- Scientific production activity Portal
- Powerful search engine
- Annual Reporting
  - Institution
  - Groups & Departments
  - Researchers
  - Keywords
- Integration with Libraries and other repositories (WOK, Scopus, ...)

Promotion Suite CRIS ARGOS
Research Information System
Reports for decision making
Implement Official KPIs checking
Create Datamarts for specific areas reporting
Generate accurate reports for Official Institutions
Added value reporting & services from an ODS
avoiding access to SIGMA Transactional DB
Historical and trending information
Day to Day reporting with Data Quality
 guaranteed in the bottom layer
Normalization and aggregation of data
Institution Open Analytics
SIGMA Gestión Universitaria
SIS & CRIS Core Solutions
Technology & Innovation
PIZARRA Mobile Social App
Technology and Innovation are the backbone of the services and solutions provided, based on a highly open source development and deployment platform for J2EE5 certified application servers compliant on a multi-tier and high performance proven open architecture.
<table>
<thead>
<tr>
<th>Cloud SaaS</th>
<th>Campus On Premise</th>
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<tbody>
<tr>
<td>X86</td>
<td>Sparc</td>
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<td>Linux</td>
<td>Solaris</td>
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<tr>
<td>Apache WS</td>
<td>ORACLE IWS</td>
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<td>Glassfish</td>
<td>WebLogic</td>
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<tr>
<td>ORACLE DBMS PostgreSQL</td>
<td>ORACLE DBMS</td>
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</table>
Innovation
Multi-tenant Framework for SaaS

Config & Data Customer A
SIGMA ARGOS
Logs & Reports

Config & Data Customer N
SIGMA ARGOS
Logs & Reports

customers.properties

Business Logic 1
Business Logic 2
Business Logic K

Framework FS3
Application Server

Saas

Customer A
Customer N
Innovation
SIS – eLearning – MOOC
Innovation
Native & Responsive Web Design

Web
- HTML CSS Web
- HTML CSS RWD
- HTML5 Mobile

Templates generated by Framework

Market
- HTML5 Hybrid App
- Native App
- Android+iOS Development
Innovation
Mobile Social Apps
SIGMA APPS

Android

iPhone

Google Play

App Store
Calificaciones

First native Mobile App Access to Gradebook in Spain (2010)

- Secure login
- On line DataBase access
- Push notifications
- Traceability

Students first contact and loyalty
Size of the mobile community
Web Access + Mobile App Access to Gradebook

Madrid Public University
35,000 students
Barcelona Private Business and Chemistry School
2,000 students

Web Access + Mobile App Access to Gradebook

2010  |  2011  |  2012
University Community

- Students
- Teachers

Networking Structure & Relationships

- SIS
- CLE eLearning

Mobile Social App

- Mobile App “Blackboard”
- Devices
Messaging Native Social App for the existing structured community

- Secure login
- Online Database access
- Push notifications
- Traceability

Teachers and Students
Enhanced messaging capabilities
• Messaging
  • Students and teachers
  • Information & Alerts
  • New message notification
  • Comment in blog mode

• Accessing resources from the CLE courses and the Gradebook

• Integrated web page within CLE only for teacher’s use

• Attaching and sharing documents, videos, ...

• Institutional Bulletin Board
• Creating free **new students groups** apart from the existing structure

• **Sharing** messages in 🌐

• Easy **one-click** messages

• Predefined in campus places to **meet**