LENS : Learning Environment by Network Service

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About DUNET Profile

Subsidiary of Dong-A Ilbo Media Group

- Dong-IIbo, Major Korean Press
- Major Investor Relation: Dong-IIbo, Samsung SDS

Excellent 'e-Learning Enterprise

- Leader of Policy, Standardization
- Technical Development
- Industrialization

Capital $3 million
- Established ’00.8
- Shareholders
  - Dong-A 49%
  - Samsung SDS 18%
  - The Others: 33%

Experience
- Since 2000, Verified K-12, University, Public
- Leader of Korean e-Learning
- Policy
  - Cyber-Learning, Quality Certification System
- Standardization ➔ SCORM etc.
LENS is...

- **LENS**: Learning Environment by Network Service
- Updated solutions, maintenance and repair can be provided through network service.
- The main server monitors the individual server’s conditions to recover any occurring errors.
- LENS is the result of the projects that have been running for 7 years through sponsorship by the government of US $15 million.
- LENS system provides all possible solutions (LMS[ Learning Management System ], CMS[ Content Management System ], AMS[ Authoring Management System ], DMS[ Content Development Management System ]) for e-learning.
- Though currently, LMS and CMS are being aspired by LENS there are plans to add AMS and DMS in the near future.
- It’s remarkably cutting edge skills leading to next generation technology.
Sensing, Checking & Recovering of Learning Resource

User Level

Supply Level

Version update

Group Learning Analysis

Operator

developer

Manager
Features (1)

Rapid LMS Service

- Organizations Registration
- Connector Install
- LMS Install
- LMS Service
  - Sensing, Checking & Recovering

Rapid install and service
Continuous upgrade
Sharing academic resources

- Upload Sharable Academic Resource
  - Data, Content and Academic activities
- Academic Resource Monitoring
- Sharable Academic Resource Service

Main Server

Database

Content

Upload Sharable Content

Individual Server A

LMS A

LMS manager

LMS B

Individual Server B

learner
Features (3)

Adjusting e-Learning Service

**Learner**
- Learning
- Learning schedule check
- Learning progress check

**Instructor**
- Learner progress check
- Learning Test
Systematization of e-Learning service management

**Main Server**
- Learning Activities
- Statistical data provision

**LMS A, B**
- Giving advise

**LMS manager**
- Giving advise
- Learning

**Instructor**
- Giving advise and supplementary instruction

**Learner**
- Monitoring the students and teachers progress status
Features (5)

- **e-Learning Policy Measurement for each LMS**

- Sharing statistical data from Learning Activities
- Sharable content information
- The diverse learning activities of all the learner

- e-Learning policy measure
- own future academic plans

- Main Server

- Statistical data provision

- LMS A
- LMS B
- LMS C
5 Introduction Effect

Economic Effect

- e-Learning Service (Average) (unit: USD)

<table>
<thead>
<tr>
<th>Solution</th>
<th>System Integration</th>
<th>LENS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cost</td>
<td>Time</td>
</tr>
<tr>
<td>LMS</td>
<td>160,000</td>
<td>5~6 month</td>
</tr>
<tr>
<td>LCMS</td>
<td>40,000</td>
<td>2 month</td>
</tr>
<tr>
<td>AMS</td>
<td>20,000</td>
<td>-</td>
</tr>
</tbody>
</table>

1) Efficiently centralized control by LENS
2) Rapidly construct the solution (LMS, LCMS, AMS etc.) & Economical Service Cost

※ In the case of multiple students using the same resources because content that are offered at LENS are shared, the cost of manufacturing the content will be reduced.
1) Operators can now easily construct and operate a learning environment through the offered course property and course-finish processing regulations by the system.

2) It is possible to easily create an e-learning service through the offered homepage management for the operator to select their desired designs by using discussion board, survey, community etc..

※ LENS designed for distribution structure, is applicable to every resources between different school, company and public institution.

As well, it will help to maximize the educational effectiveness by sharing and effectively operating the learning resources, functions and environment on the network.
Future Development Course

- LIP: Learner Information Profile
- ePortfolio
- LENS (Learning environment by network service)
- TMS (Test Management System)
- QTI
- SMS (Development Management System)
- DMS
- Learning Management System
- Manuscript
- Authoring Management System
- Learning Design
- LMS (Learning Management System)
- Content Management System
- Manuscript
- Authoring
Thank you

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