

全國單位 教育行政情報體系 構築事業 適用
實驗的 教育施設現況管理 開發 研究

A Study on the Development of the Experimental Educational Facility
Management Information System based on the Nationwide Development
Plan of the Educational Administration Information System

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Ock, Jong-Ho Ahn, Byong-Hwan

Abstract

The main objective of this research is to develop an experimental educational facility management information system that will be used for maintaining existing educational facilities in the elementary, junior high, and high schools. The development is based on the nationwide development plan of the education administration information system. The system developed is accomplished by use of Map-application Information System (MAPIS), an applied commercial software that combines Geographic Information System (GIS) with existing Information and Communication Technologies (ICT) such as Database system, Multimedia methodology, and Internet system. In order to figure out the features to be improved in the system developed, the research interviewed the educational facilities management in the Ministry of Education and P Local Education Authority. The authors suggest the functional improvement of the system based on the interview results.

Key Words: Facility Management, Database, GIS, CAD, Graphical Data, Information System

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PMS (Project Management Information System)

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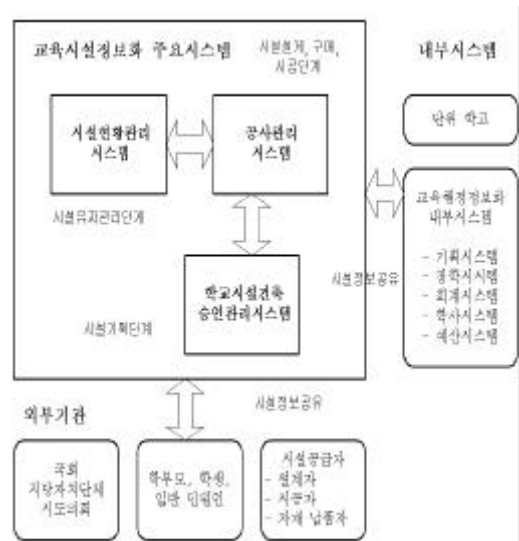
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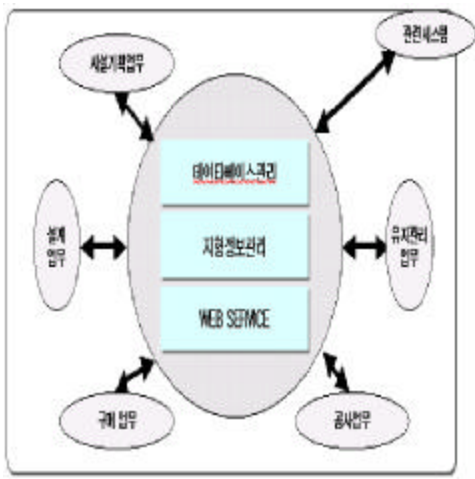
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(GIS: Geographical Information System)

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(ICT: Informa-tion & Communication Technology)

(AM/FM: Automated Mapping and Facility Management)

GIS

가 가

GIS

Mapinfo, Arcinfo, Mapis

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GIS

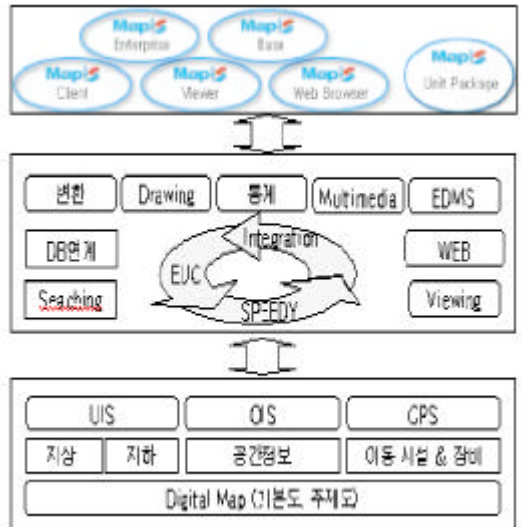
가

DB

GIS

ICT

가 (2000).



3. Mapis

GIS, Mapis, 3 (EUC: End User Computing), DB, (Digital Map), (1) DB, (2) EDMS (Enterprise Database Management System), (3) CAD, (4), (5) (Layer), (6), (7)

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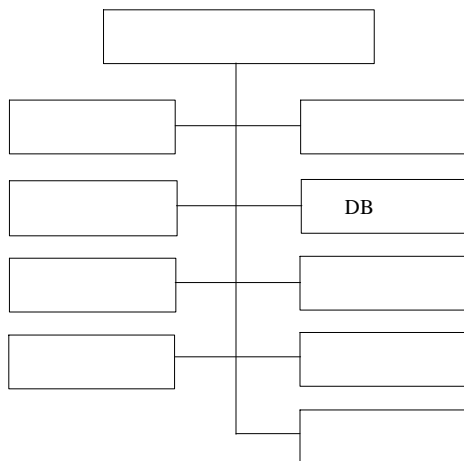
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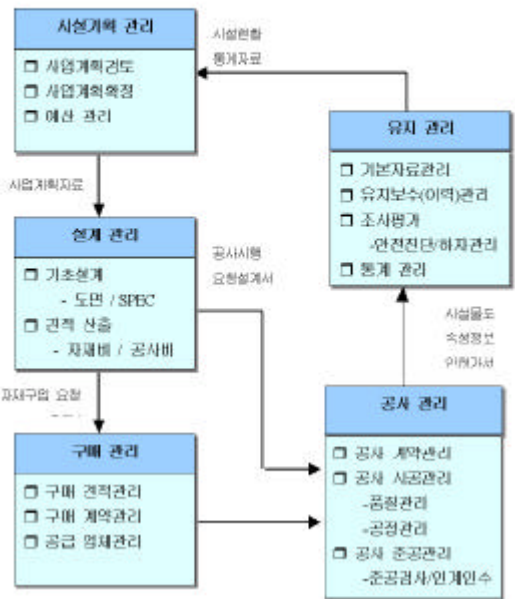
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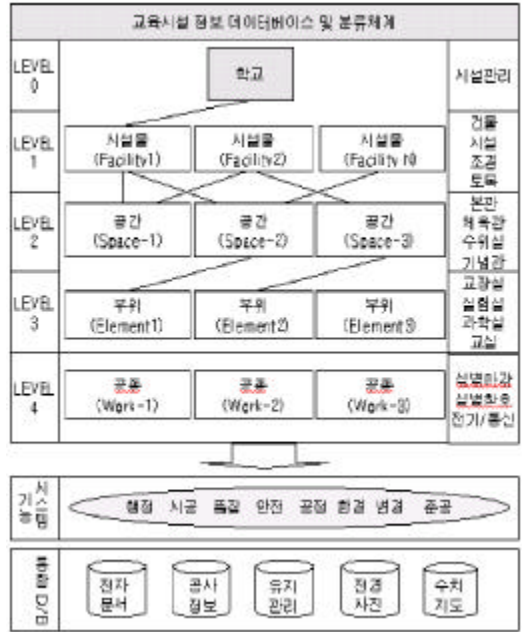
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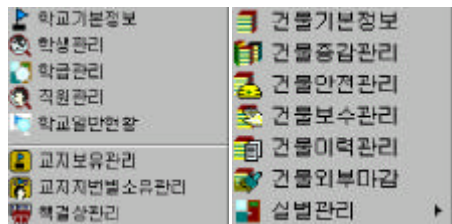
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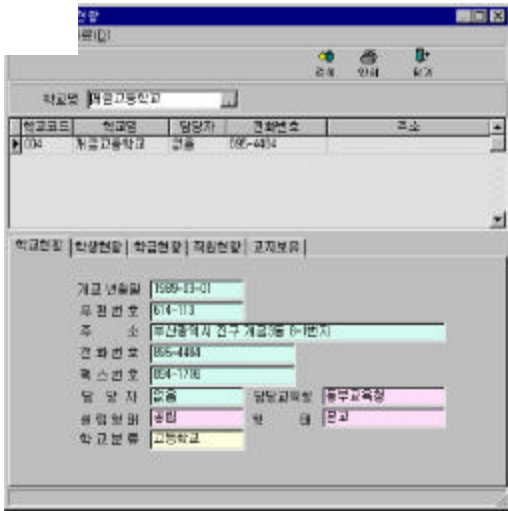
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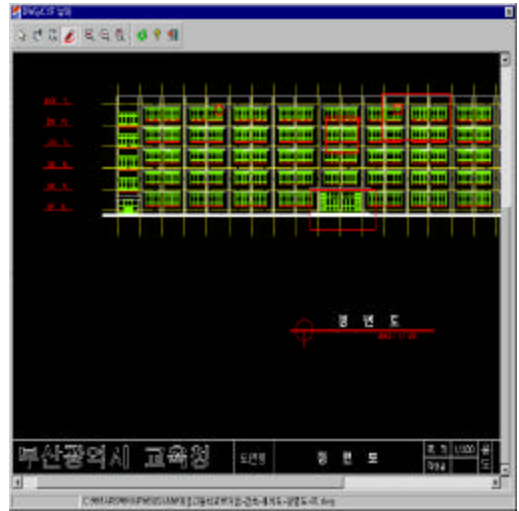
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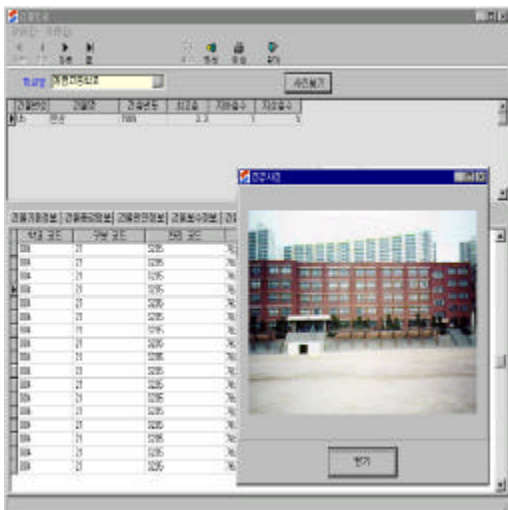
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AutoCad

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10.



12.

5.4.

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 1/5,000 가
 DB,
 가
 Mapis 가 (Mapis Client,
 Mapis Browser) 98

5.3.

Mapis (1)
 (Operating System) , (2)
 DB
 (3) ()
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 (Visual Basic, Visual C++, Java)

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CAD

, CAD

Mapis

DB

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(Excel)

DB

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DB

6.

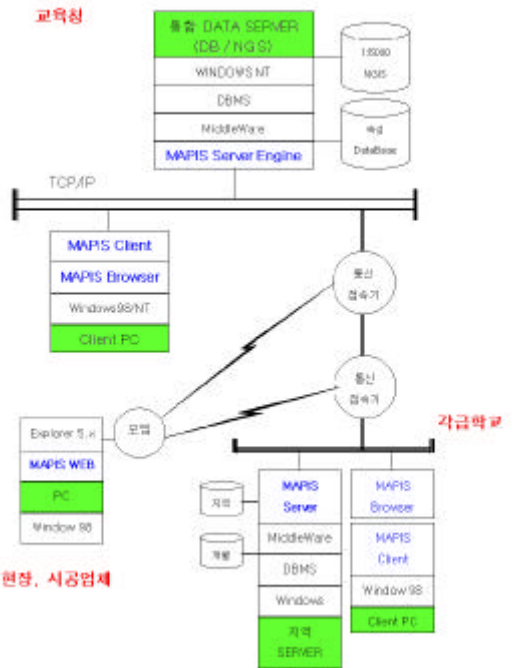
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2. , , p. 3, 2001

3. , 1992. 5

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5. , GIS

, 1998. 8

6. , GIS Component , MAPIS, 2000

7. , , , 2 , 1 , p 98 106, 2001. 3.

7.

GIS

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