KNOU eLC
한국방송통신대학교 이러닝 센터

Contents Development Management System (CDMS)

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1. Backgrounds
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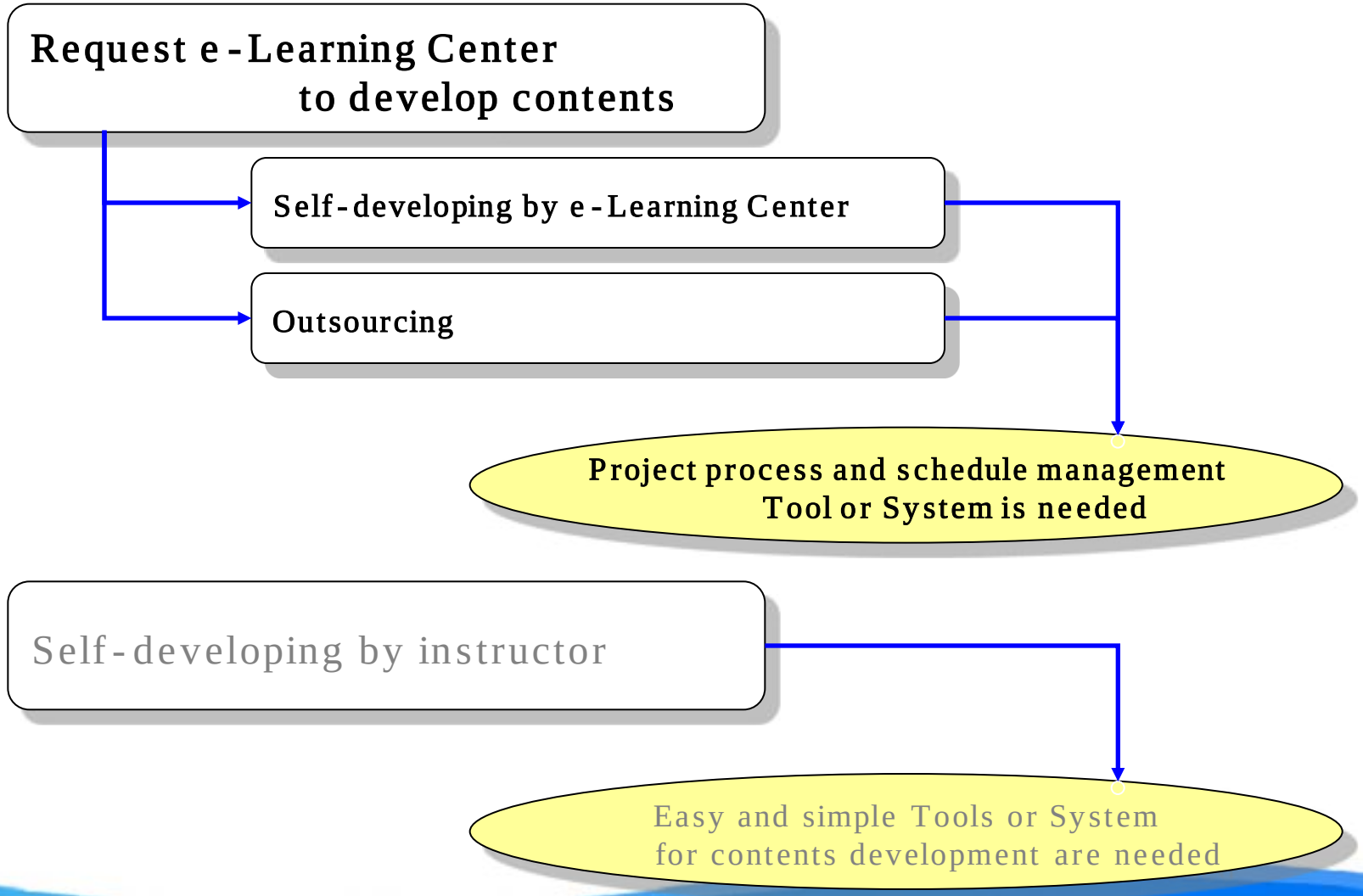
5. Effects of CDMS

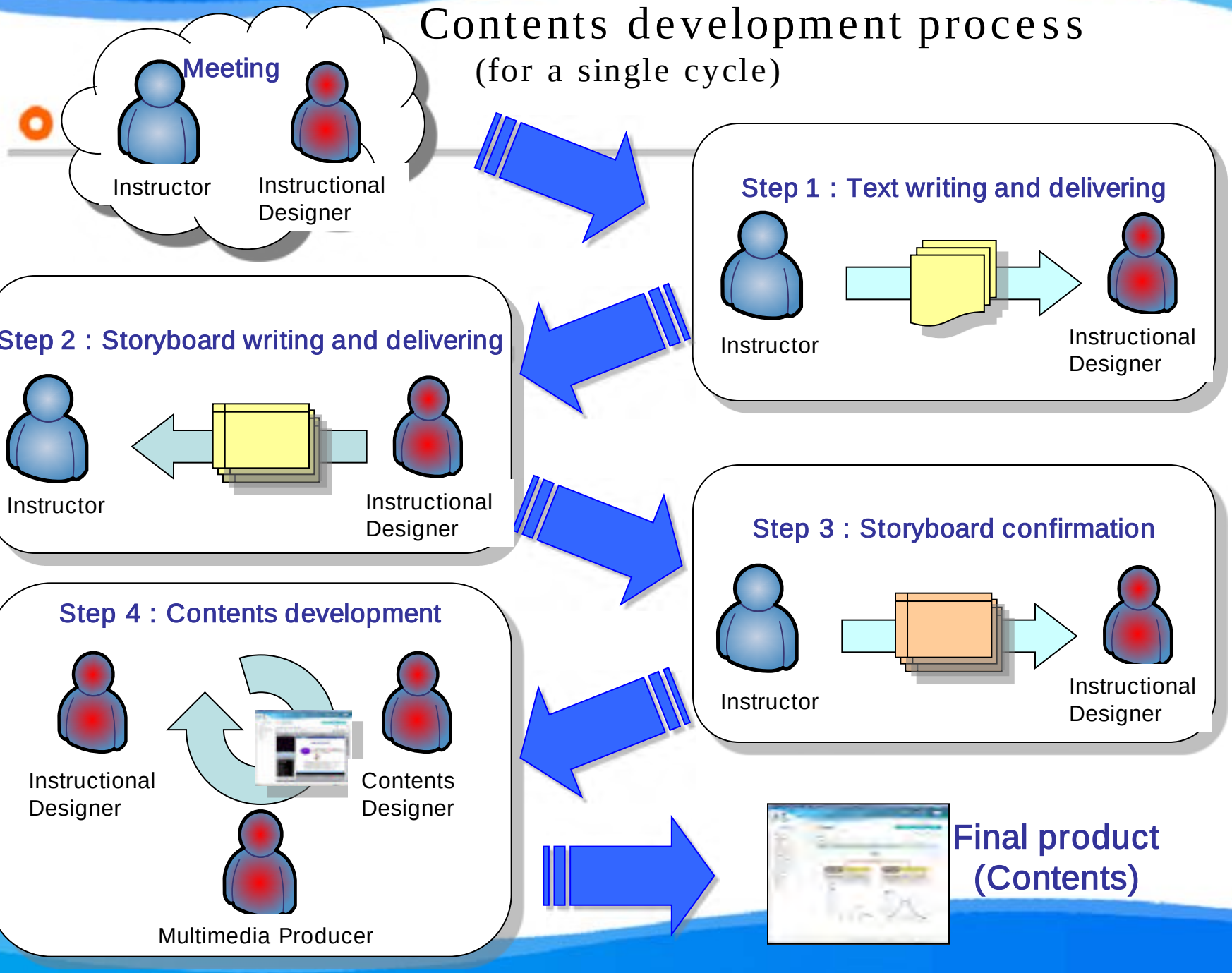
1. Backgrounds

Usual Contents Development Method in KNOU

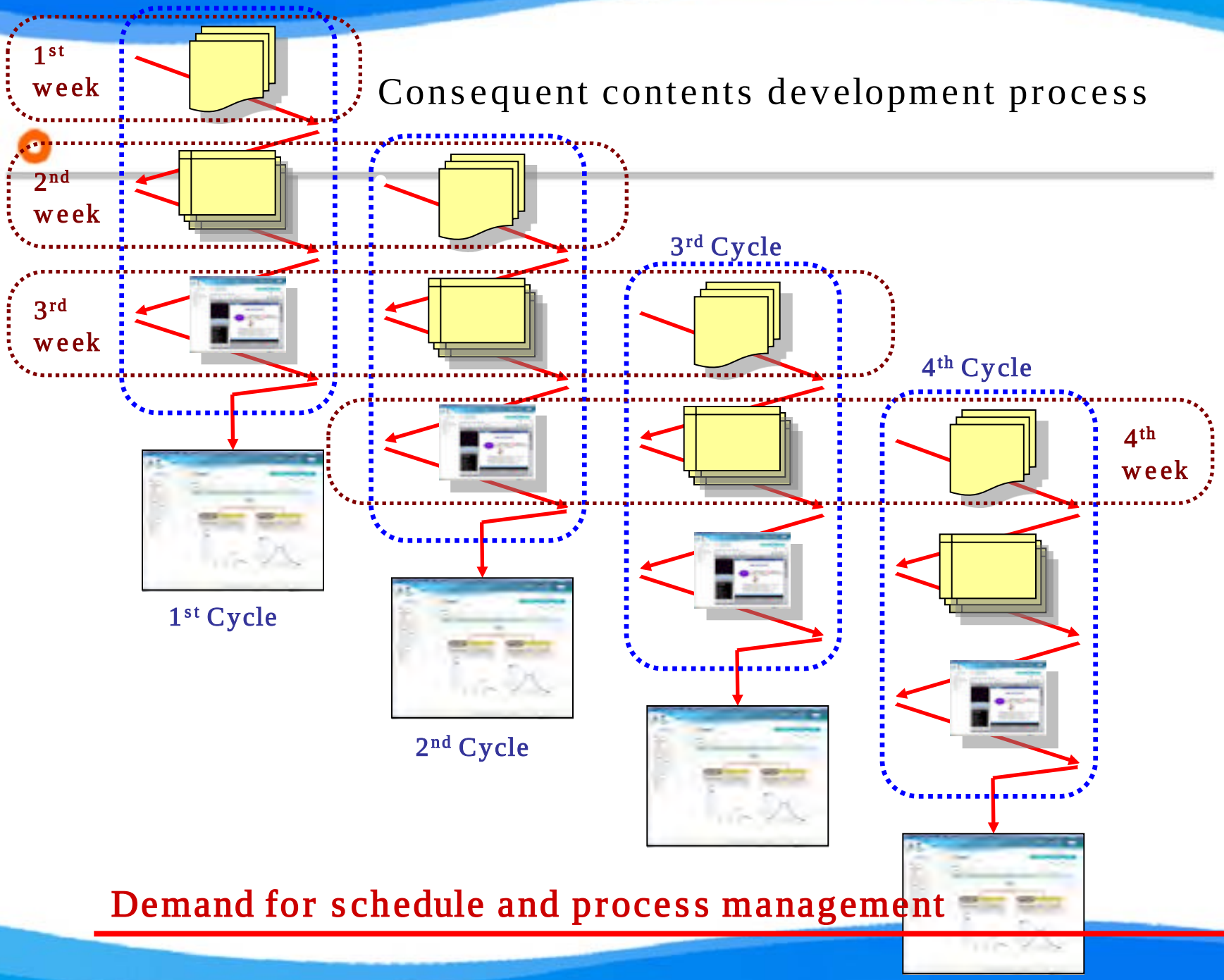


Contents development process

(for a single cycle)



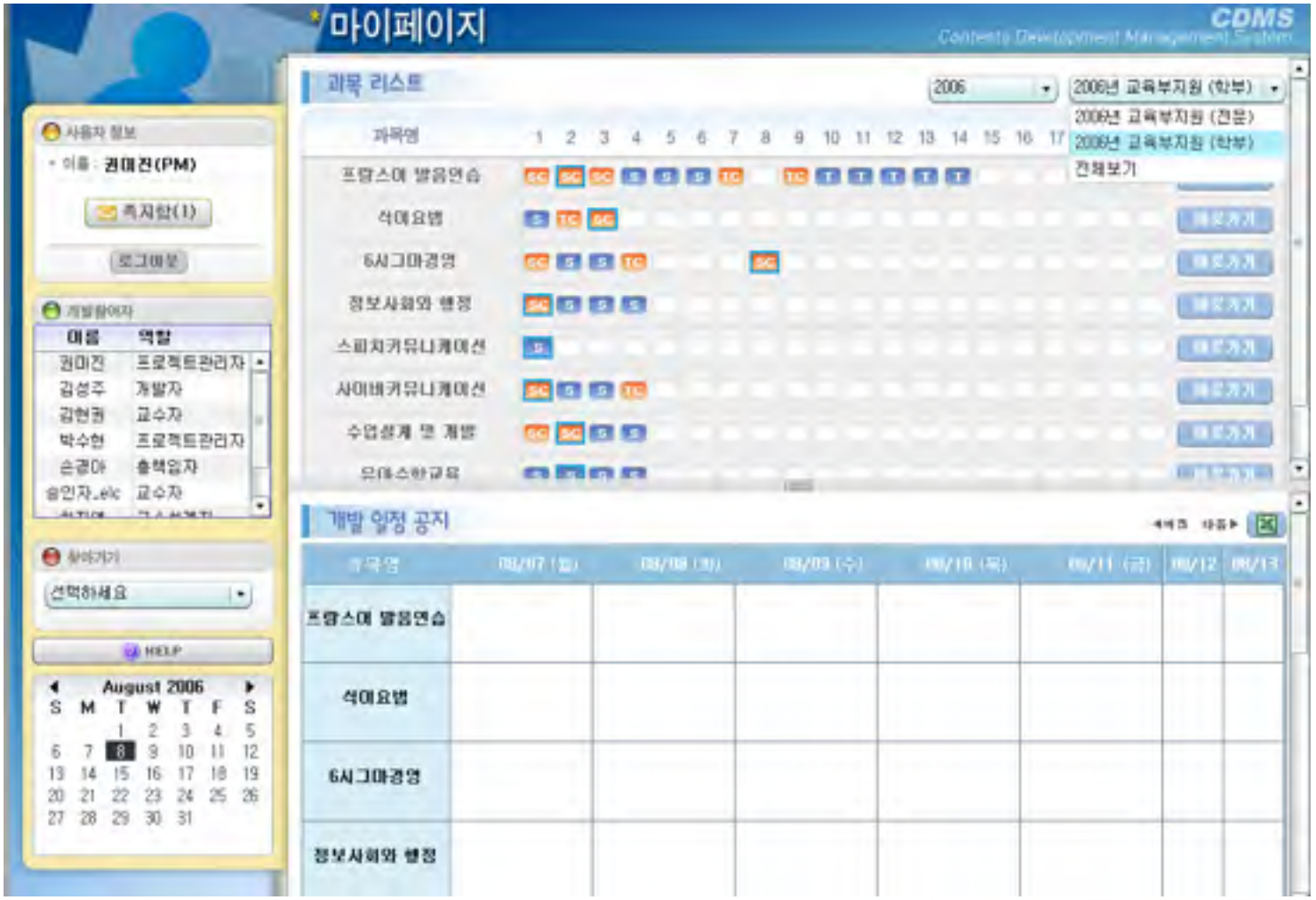
Consequent contents development process



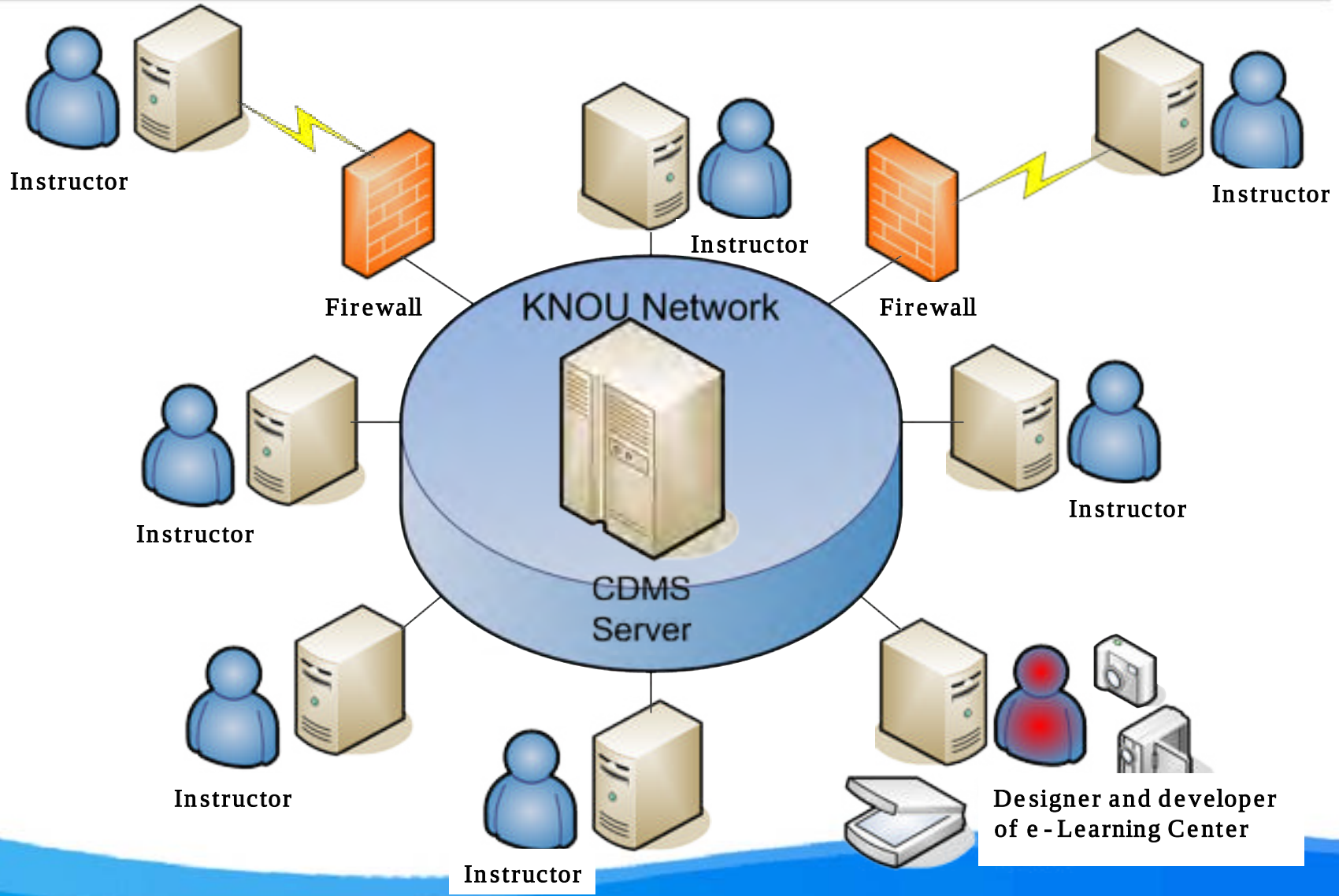
2. System Architecture

CDMS (Contents Development Management System)

A system for scheduling and process management for contents development



Architecture of CDMS



3. System Overview

Overview

1. Objectives

- Systematic management of schedule and process according to the contents development process(planning, analysis, design, development, implementation & evaluation)
- Communication tool among participants(instructor, designer, developer & operator)
- Building up project related documents and data

2. Target group

- Instructor
- Instructional Designer
- Project Manager
- Contents Designer
- Multimedia Producer

3. URL

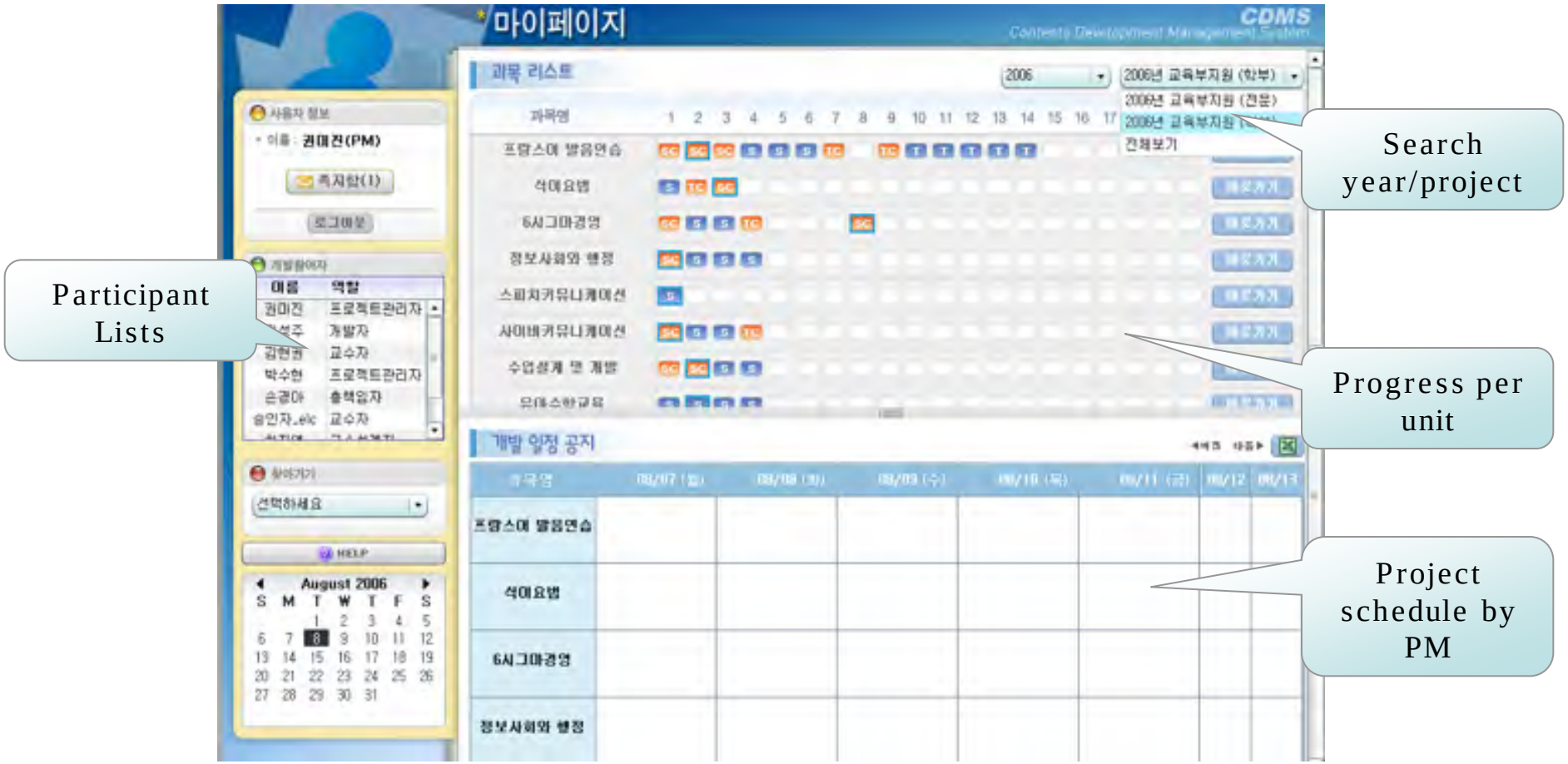
- http://cdms.knou.ac.kr

4. Page Description

Log-in

- Simple and effective single sign-on to the system with KNOU's ID and password
- User registration for external participants

My page



마이페이지
CDMS
Contents Development Management System
과목 리스트
2006
2006년 교육부지원 (학부)
2006년 교육부지원 (전문)
전체보기
과목명
프랑스어 발음연습
식이요법
6시그마경영
정보사회와 행정
스피치커뮤니케이션
사이버커뮤니케이션
수업설계 및 개발
개발 일정 공지
사용자 정보
이름 : 권미진(PM)
쪽지함(1)
로그아웃
개발참여자
이름
역할
권미진
프로젝트관리자
개발자
교수자
박수현
프로젝트관리자
손경아
출력입자
교수자
찾아가기
선택하세요
HELP
August 2006
S M T W T F S
Search year/project
Participant Lists
Progress per unit
Project schedule by PM

Set up schedule

- Preset schedule for contents development process by PM
- Notify preset schedule in ‘My page’

Course page

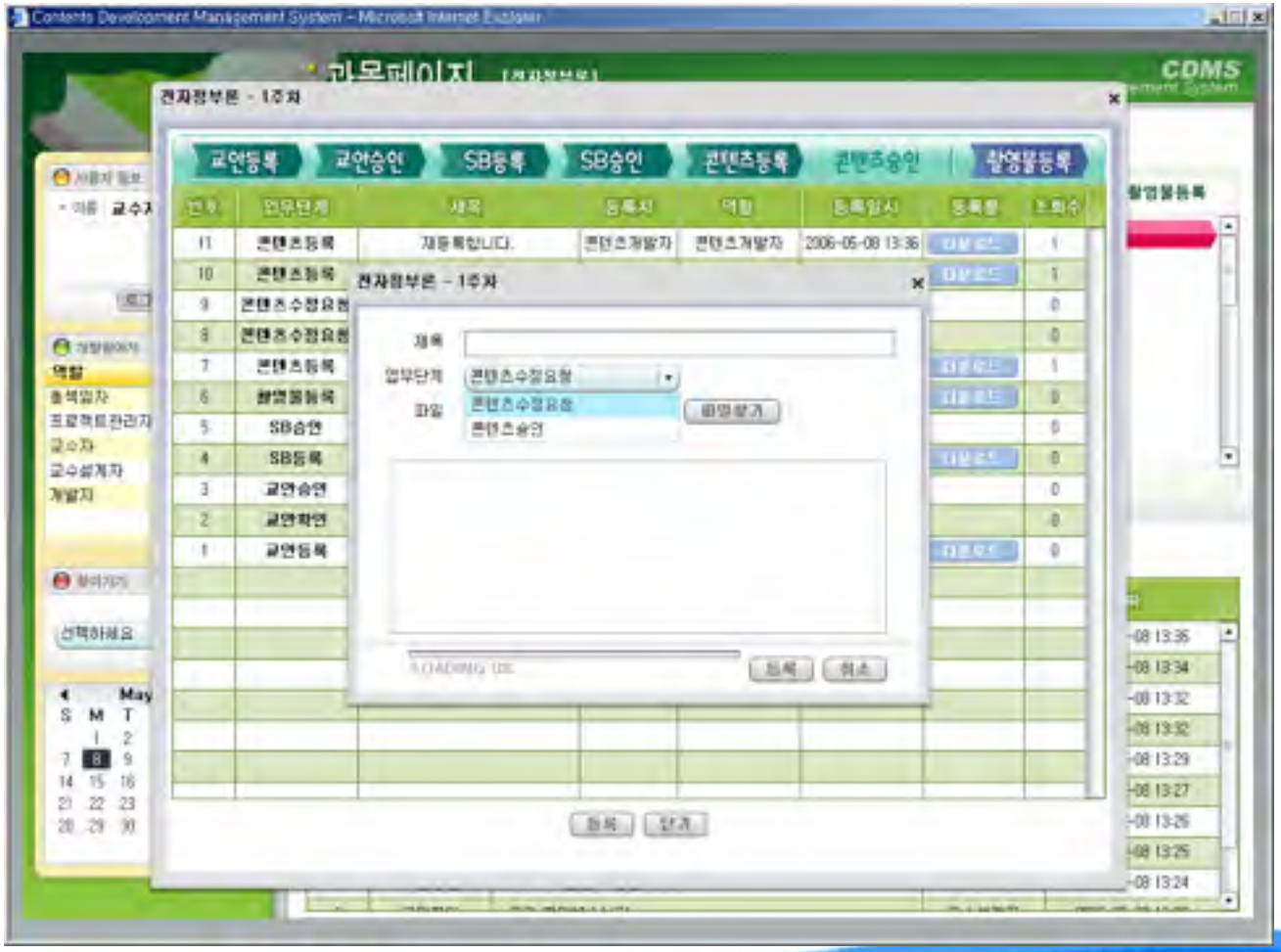
- Progress presentation for each unit

Board for each unit

- History of contents production process for each unit

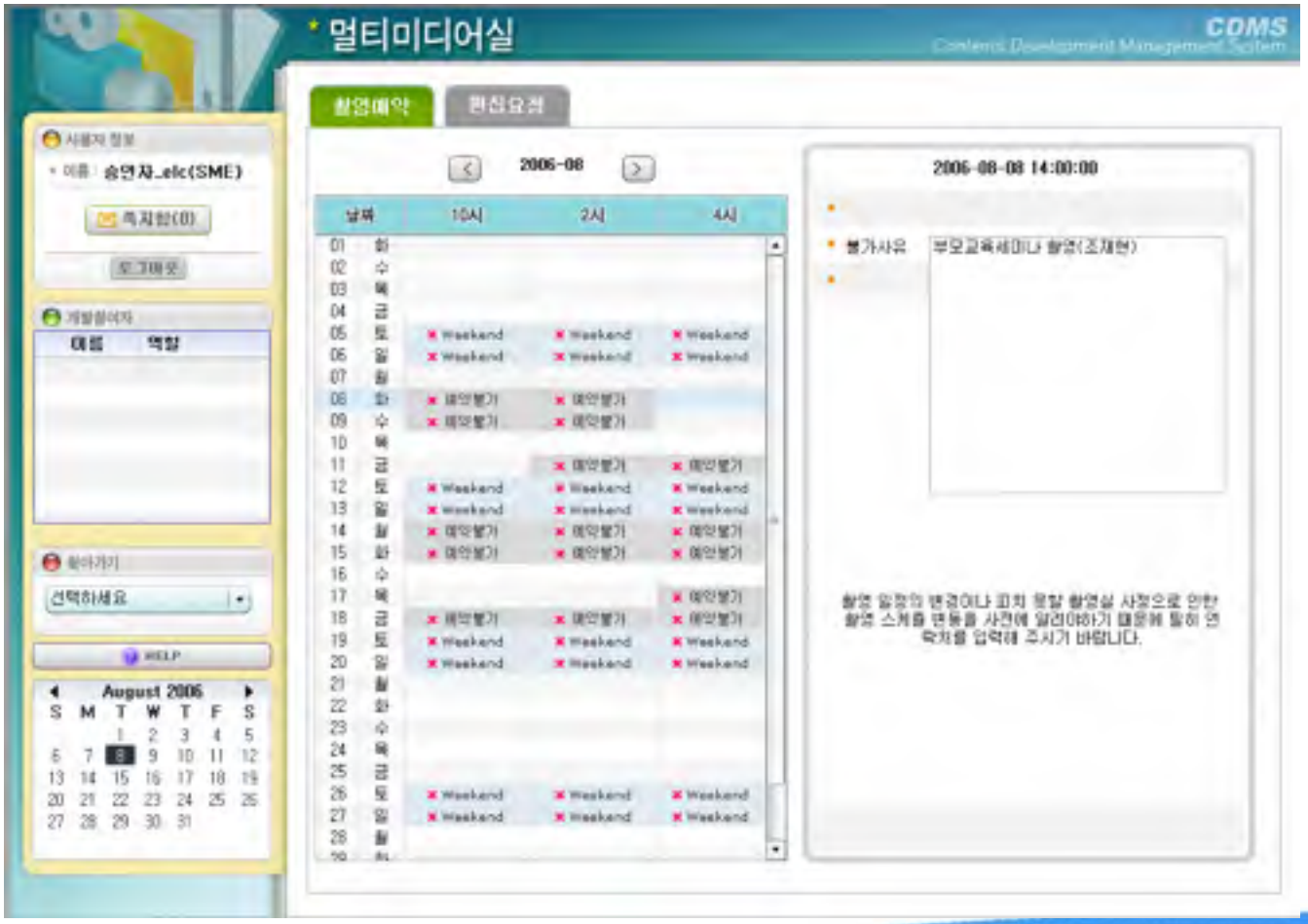
Board for each unit (Continued)

- Flag set up for each authorization/status



Scheduling for video recording

- Scheduling service for video recording and editing



Scheduling for video recording (Continued)

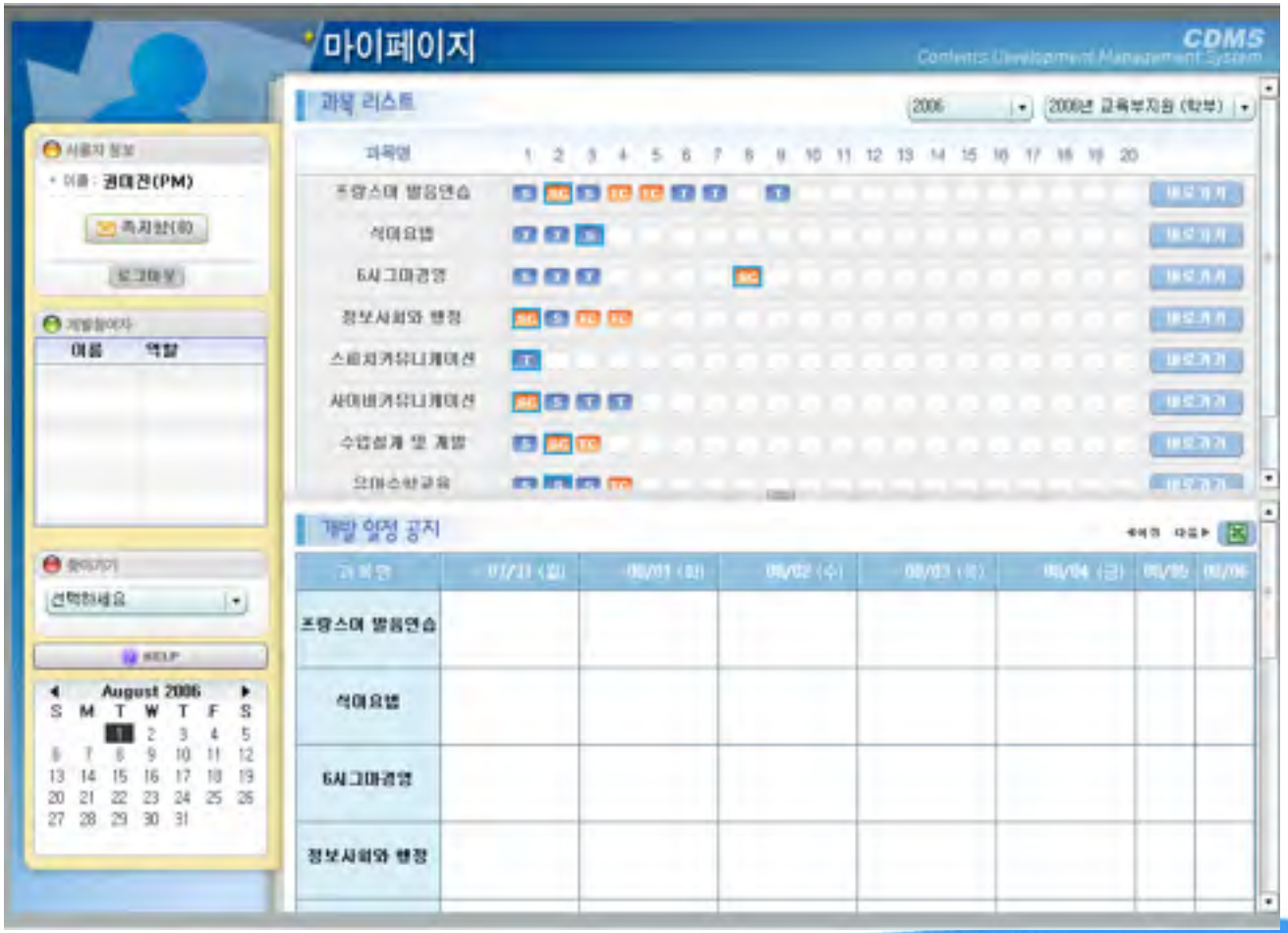
- Confirmation page for requested reservation

Message delivering

- Real-time message delivering to each participant

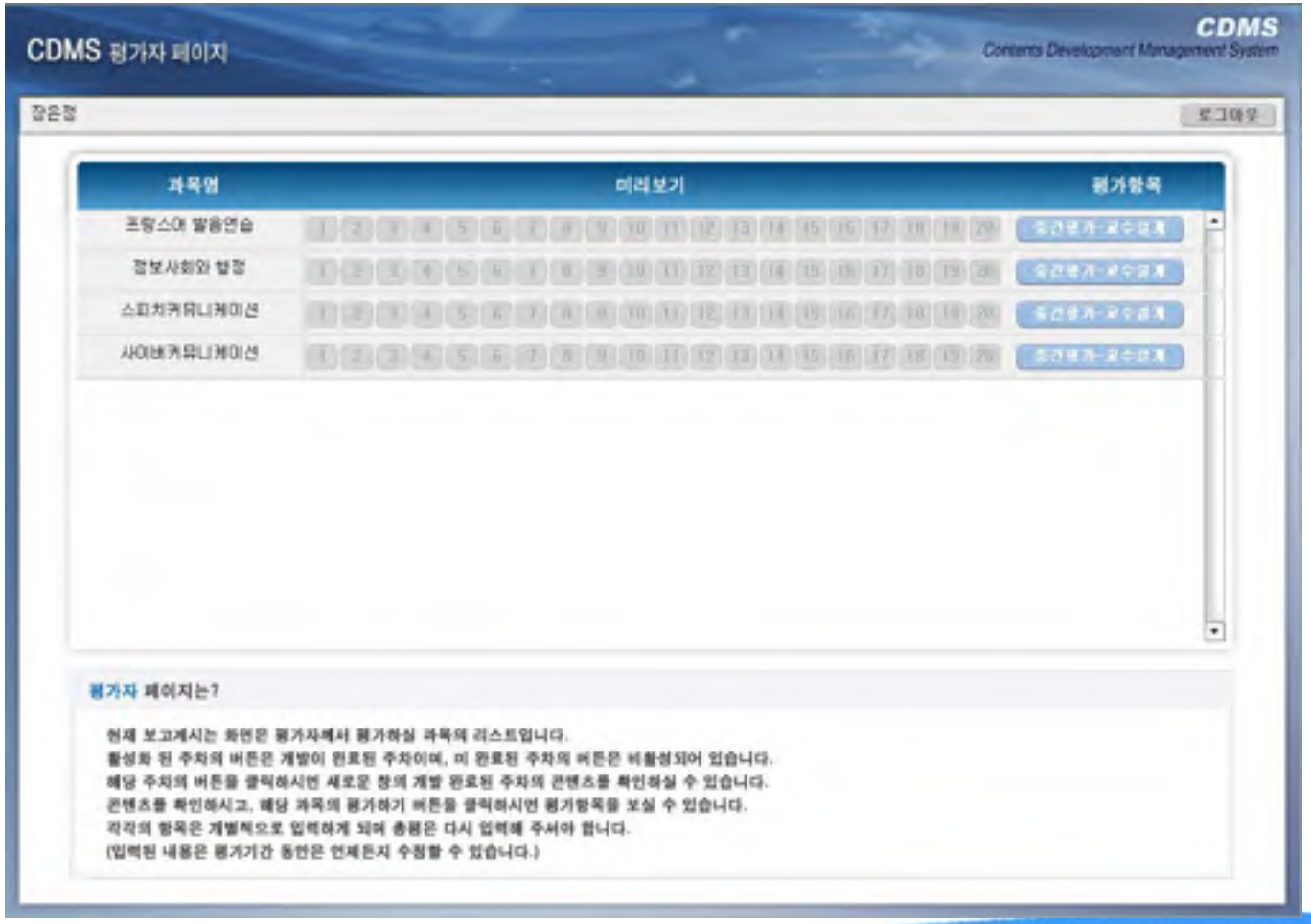
Progress status

- Presentation of contents development progress for each course & unit



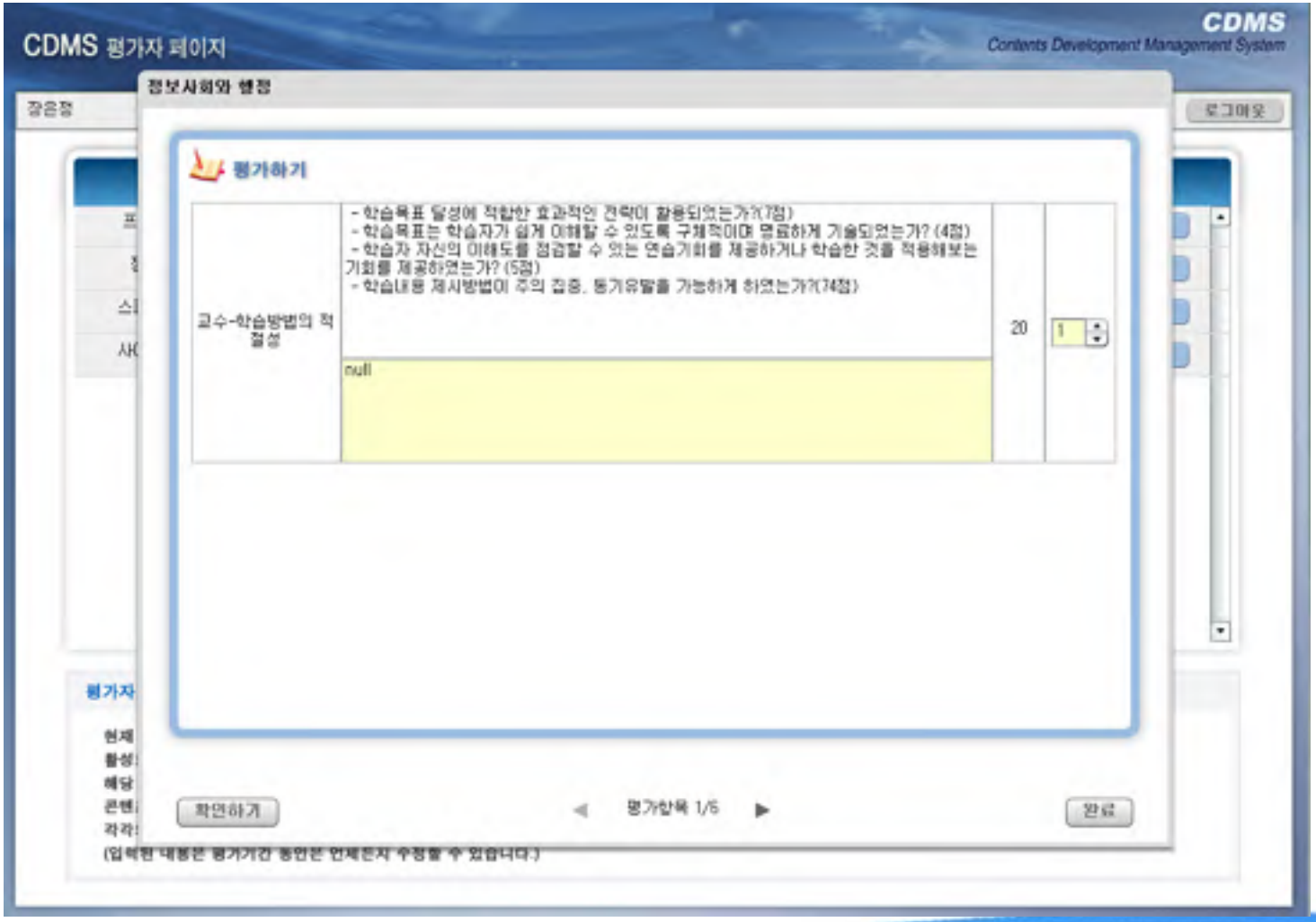
Contents evaluation

- Contents evaluation by assigned evaluator



Contents evaluation page

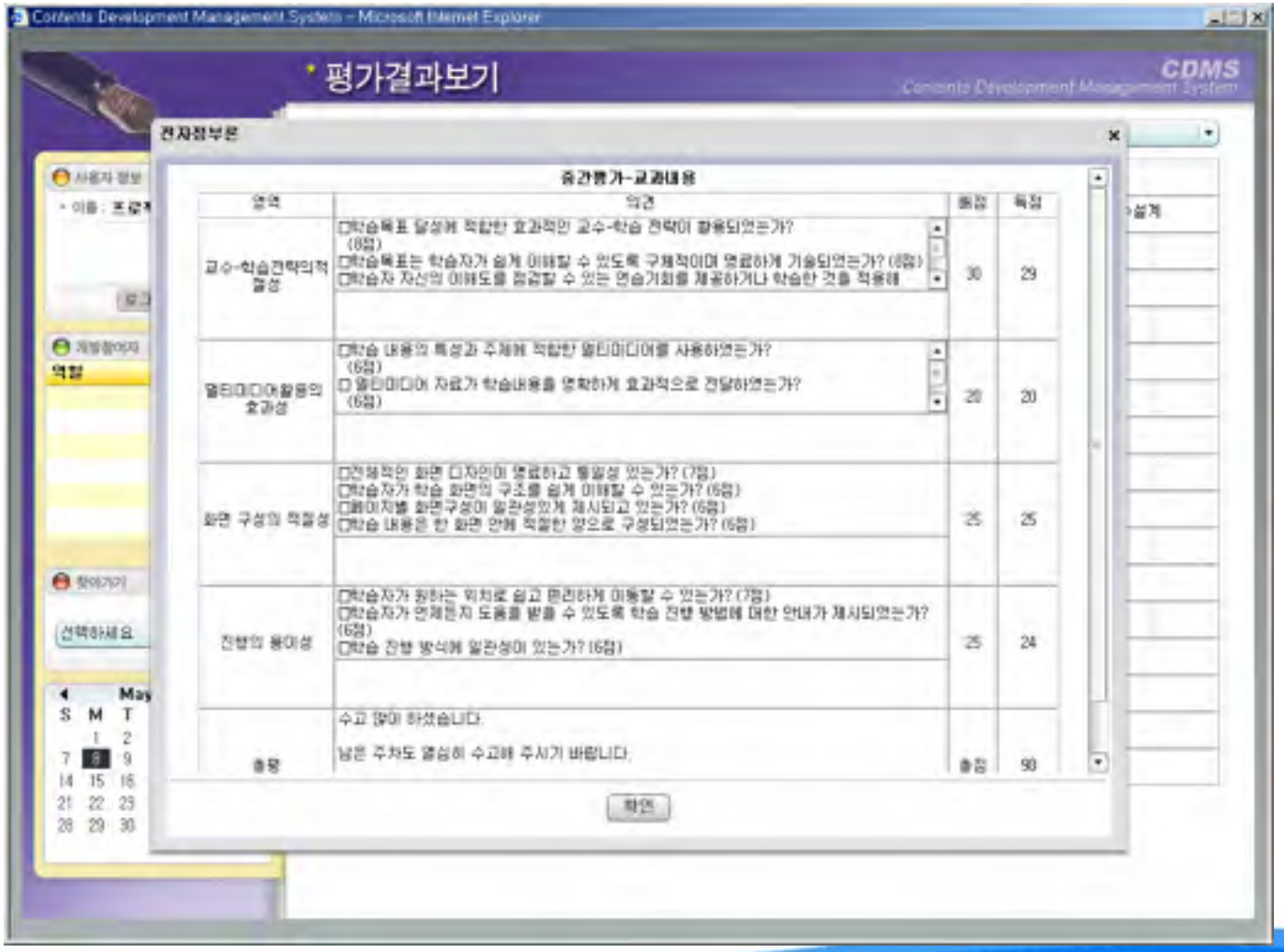
Contents evaluation page (Continued)



Contents evaluation result page

- **Confirmation of contents evaluation result by Project Manager**

Contents evaluation result page (Continued)



5. Effects of CDMS

1. Effects of CDMS

- Effective Project scheduling
- Communication time-saving among project members
- Assures contents quality
- WYSIWYG based contents preview enables instant feedback
- Based on the Internet, project members can collaborate at anytime, anyplace
- Provides both synchronized and asynchronized ways of communications, collaborations among the project members can be guaranteed
- Outputs are content-related documentations and data, so they can be good references for the future projects
- CDMS is a kind of groupware, and Knowledge Management System that is, it can be used for training of employees of e-Learning Center

Copyright protection for contents, DRM is needed

2. CSFs (Critical Success Factors)

- Constantly used by project members
- User-friendliness in the perspectives of User Interface, Easy of use, and so on is required

KNOU eLC
한국방송통신대학교 이러닝 센터

Advanced Contents Template System (ACTS)

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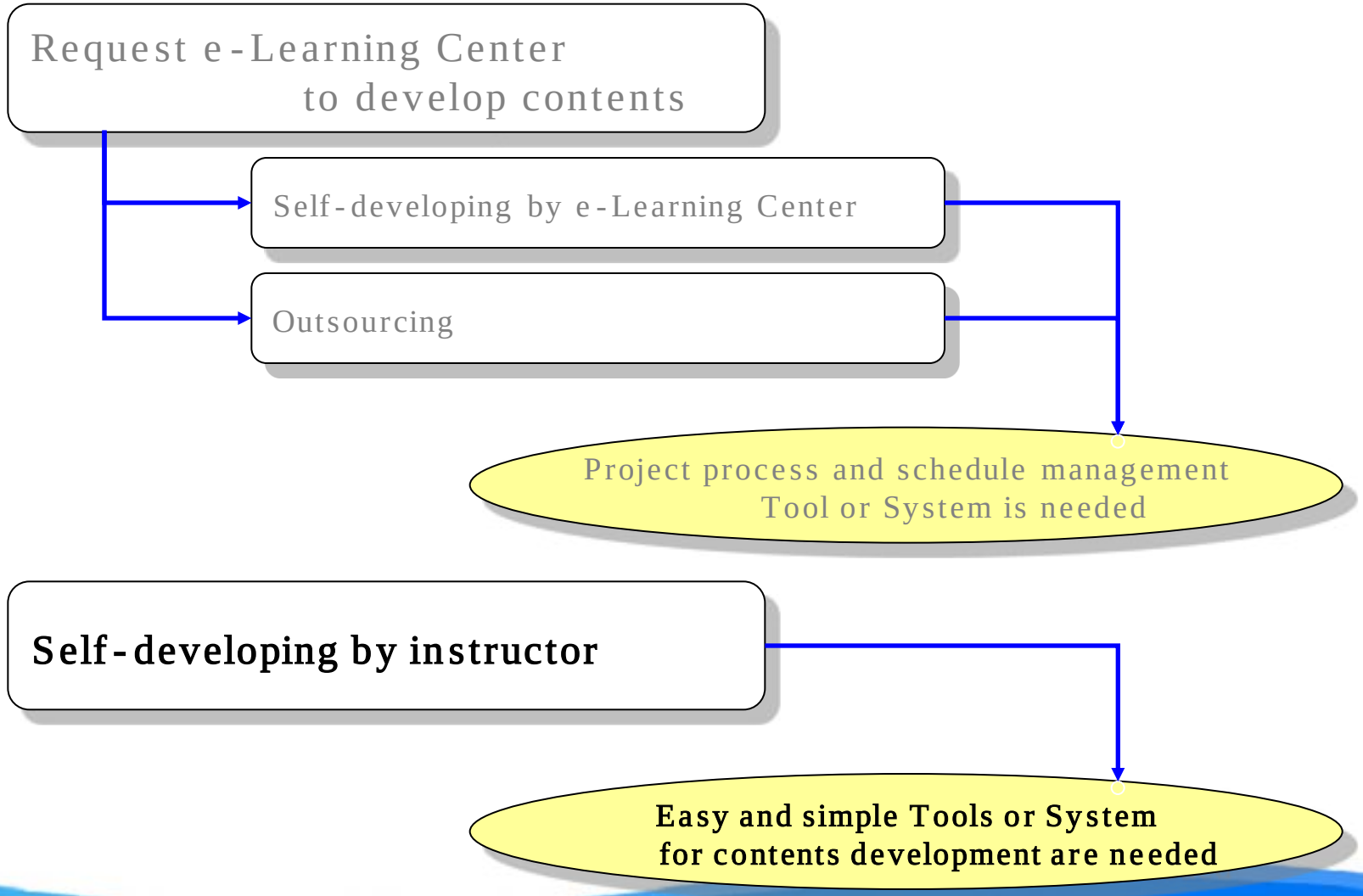
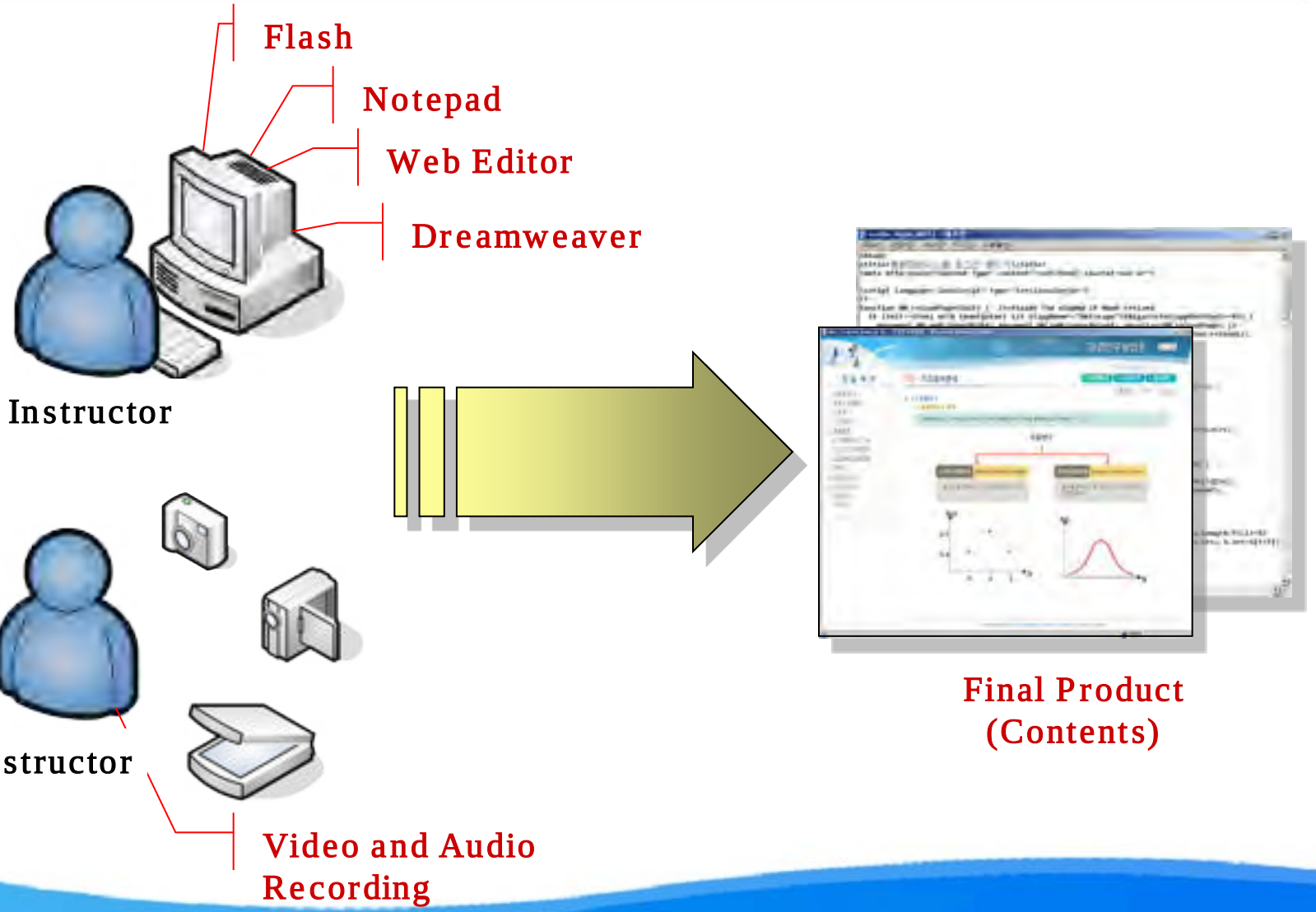
I. Backgrounds

Usual Contents Development Method in KNOU



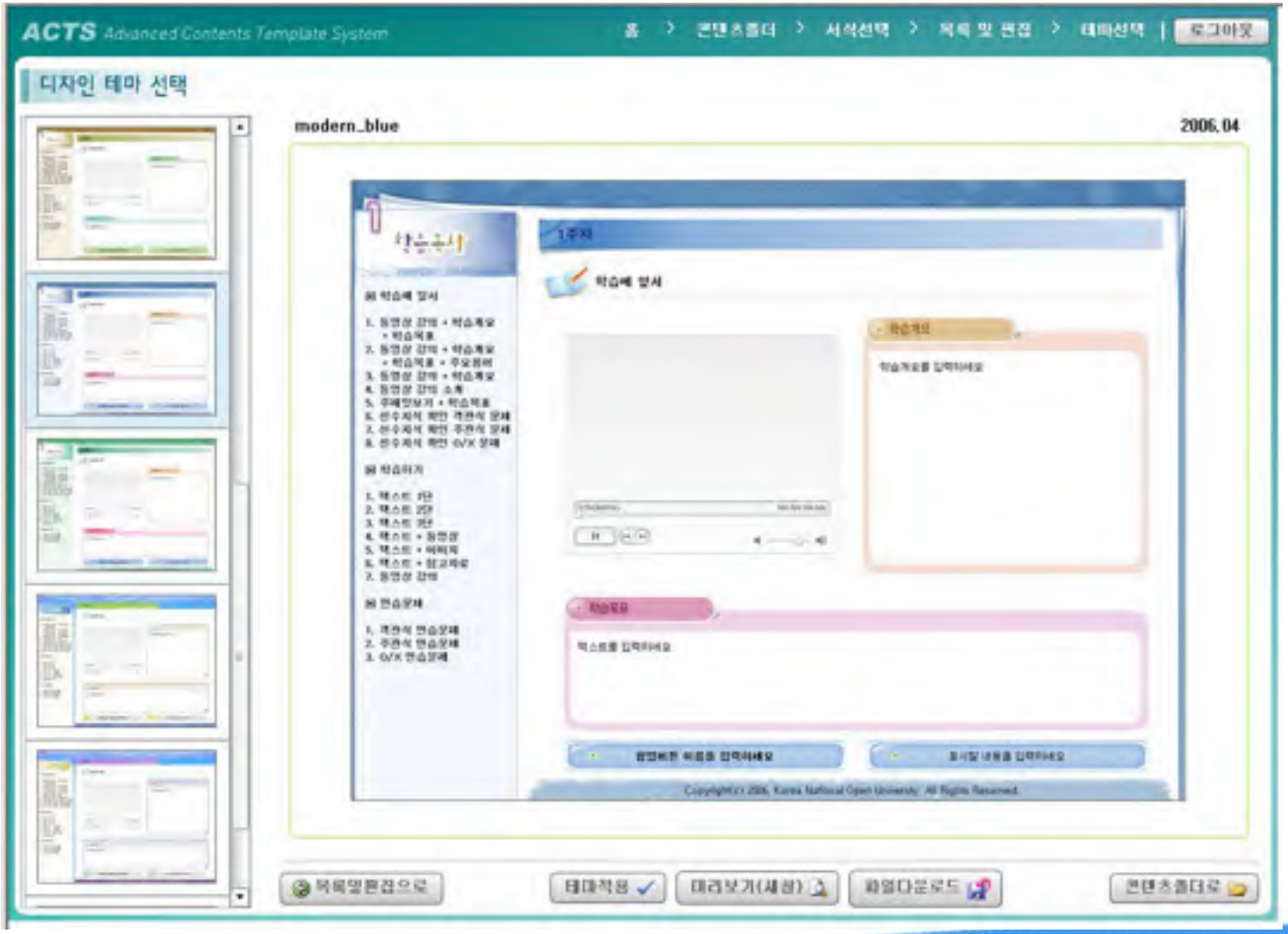
General contents authoring process and tools



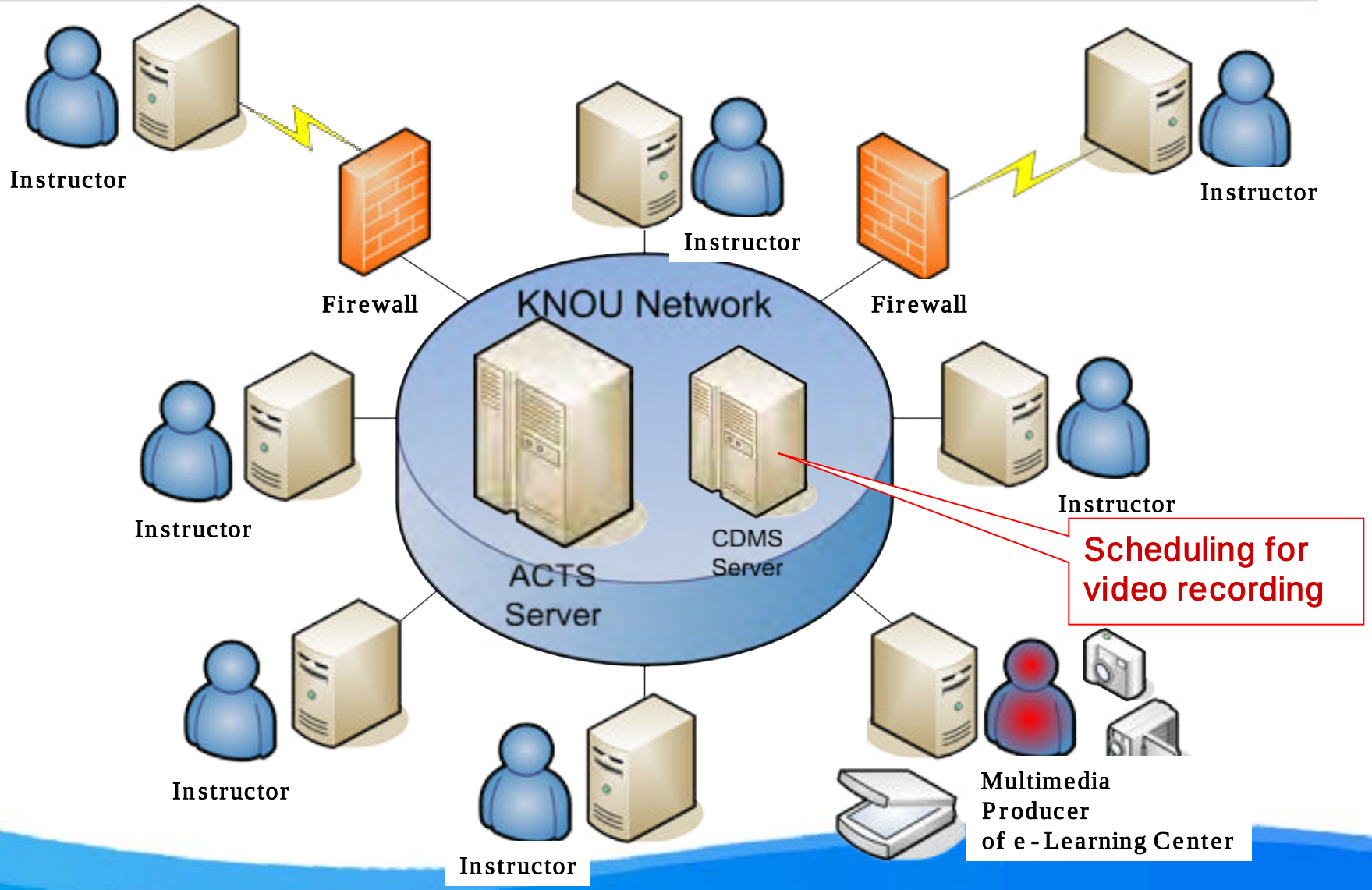
2. System Architecture

ACTS (Advanced Contents Template System)

A system for easy creation of e-Learning contents with pre-designed templates



Architecture of ACTS



3. System Overview

Overview

1. Advanced Contents Template System(ACTS) is...

- A server-based online system to help instructors to create e- Learning contents easily without any help or assistance from content designers and developers.

2. Characteristics

- The system provides pre-designed lecture type and design theme.
- The system provides various types of contents templates, which are standardized according to the contents model derived from instructional strategies.
- The contents templates include tutorial, discussion-based, project-based, and experimental type for e-Learning contents development.
- Each contents type include various learning events and pre-designed sets to help instructors choose appropriate templates with many options.
- The system allows the assurance of basic quality and cost-reduction in e-Learning contents development.

3. URL

- http://acts.knou.ac.kr

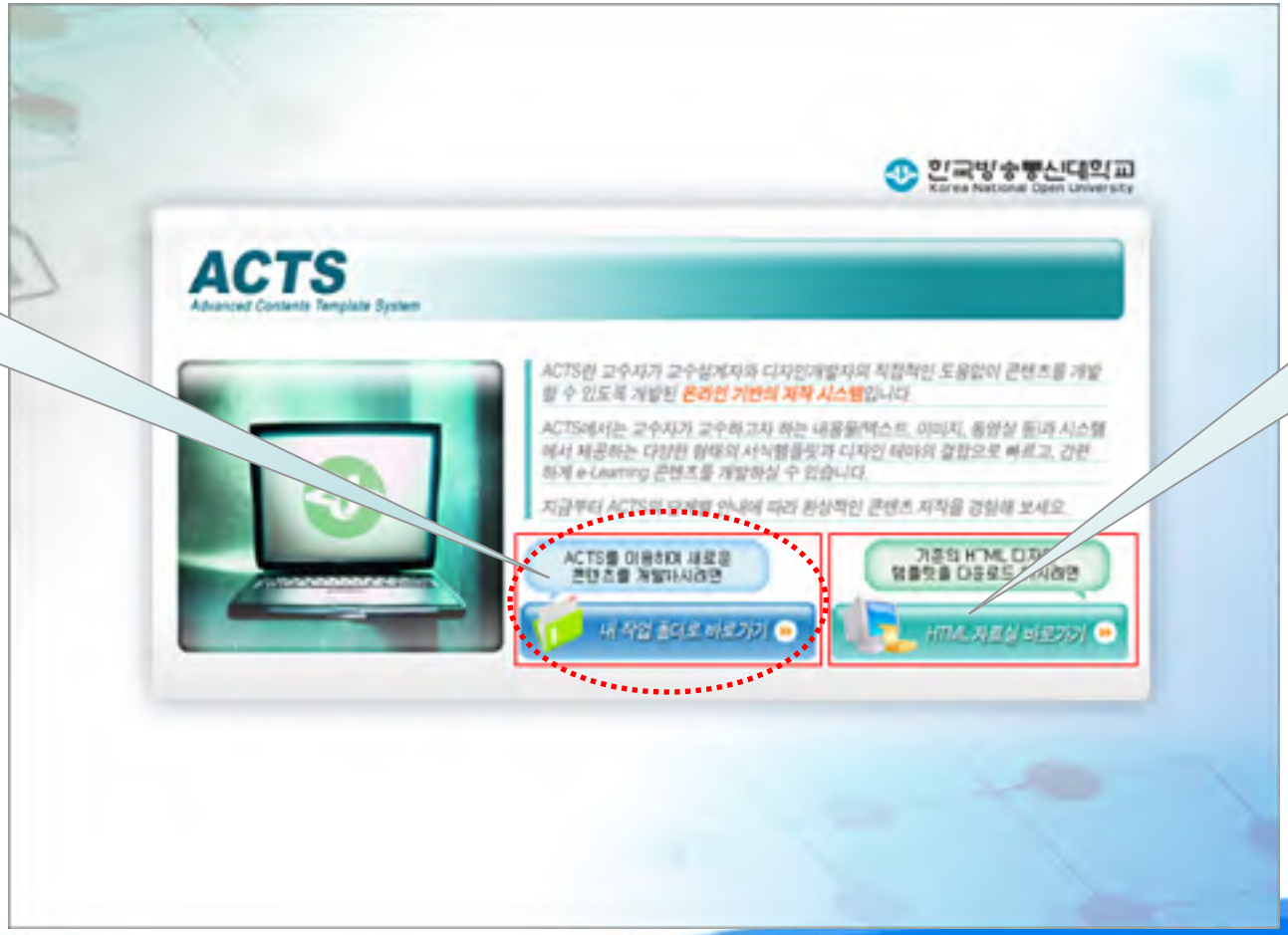
4. Page Description

Log-in

- Simple and effective single sign-on to the system with KNOU's ID and password

Select work item (1)

- Select online contents authoring using ACTS
  or HTML based template download



On-line contents authoring tool

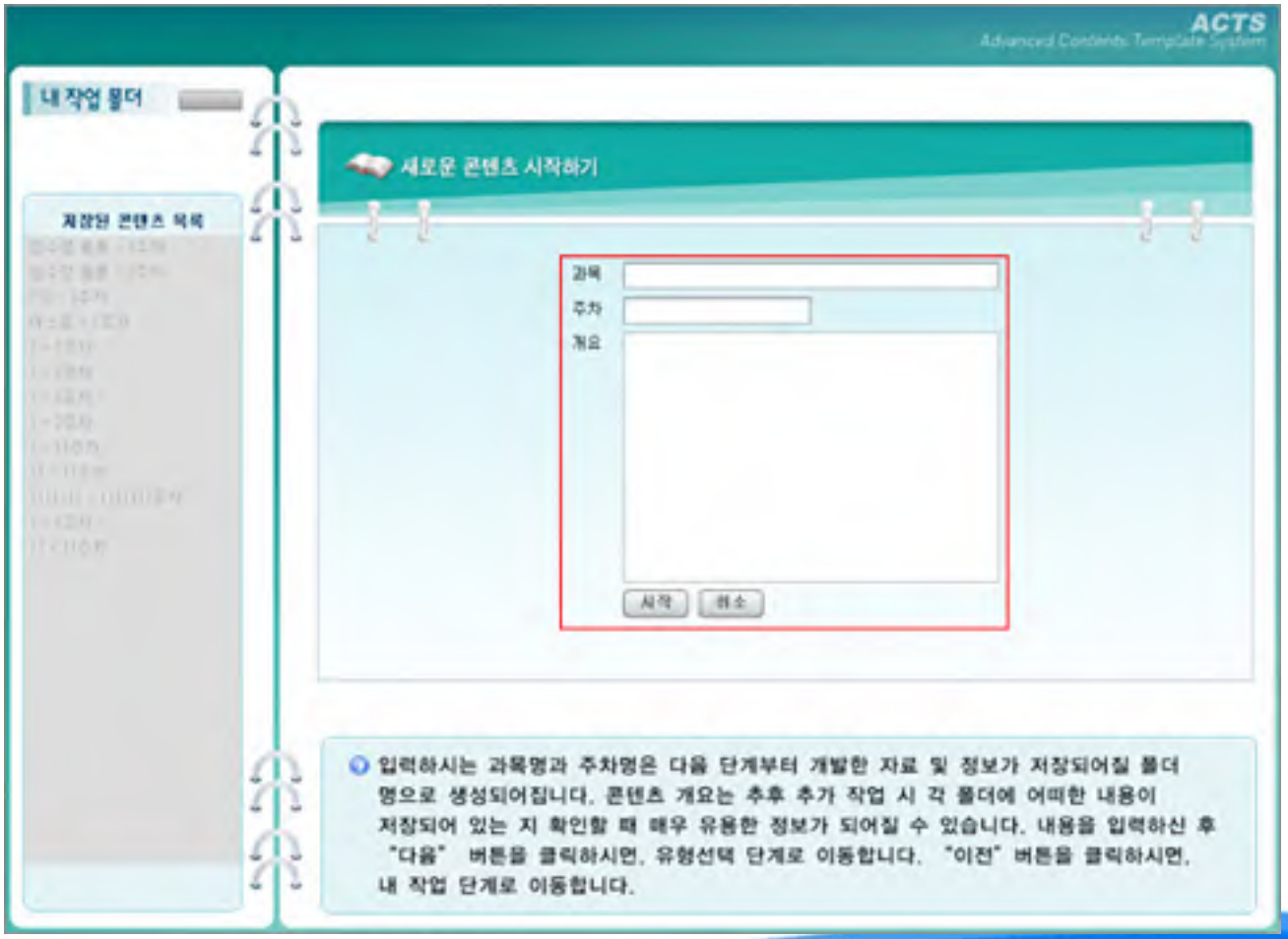
HTML based template download

Select work item (Continued)

- Select “New Contents creation” or “Already saved lists”

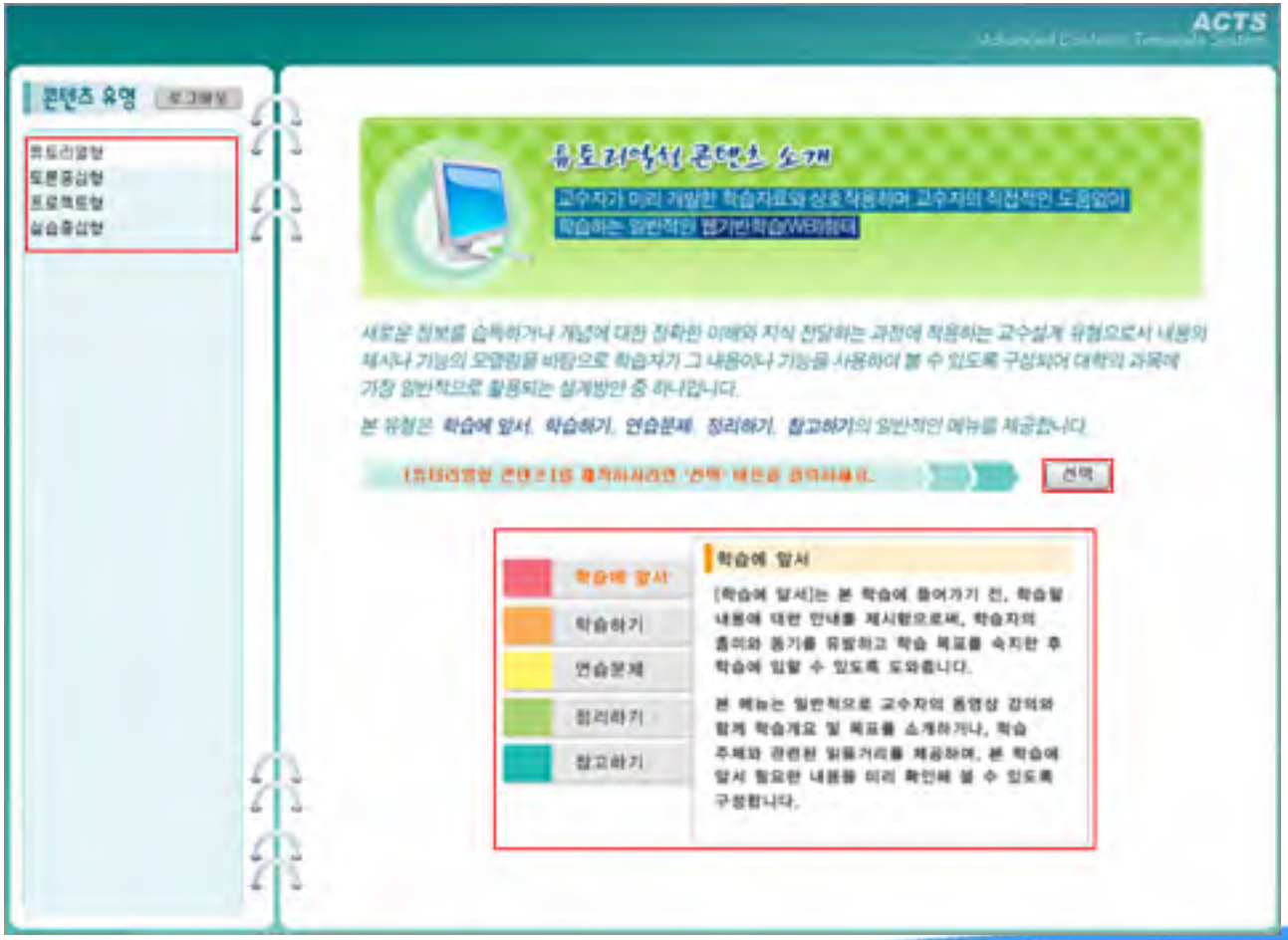
New lecture creation

- Fill in basic information for new lecture(title, unit no., introduction..)



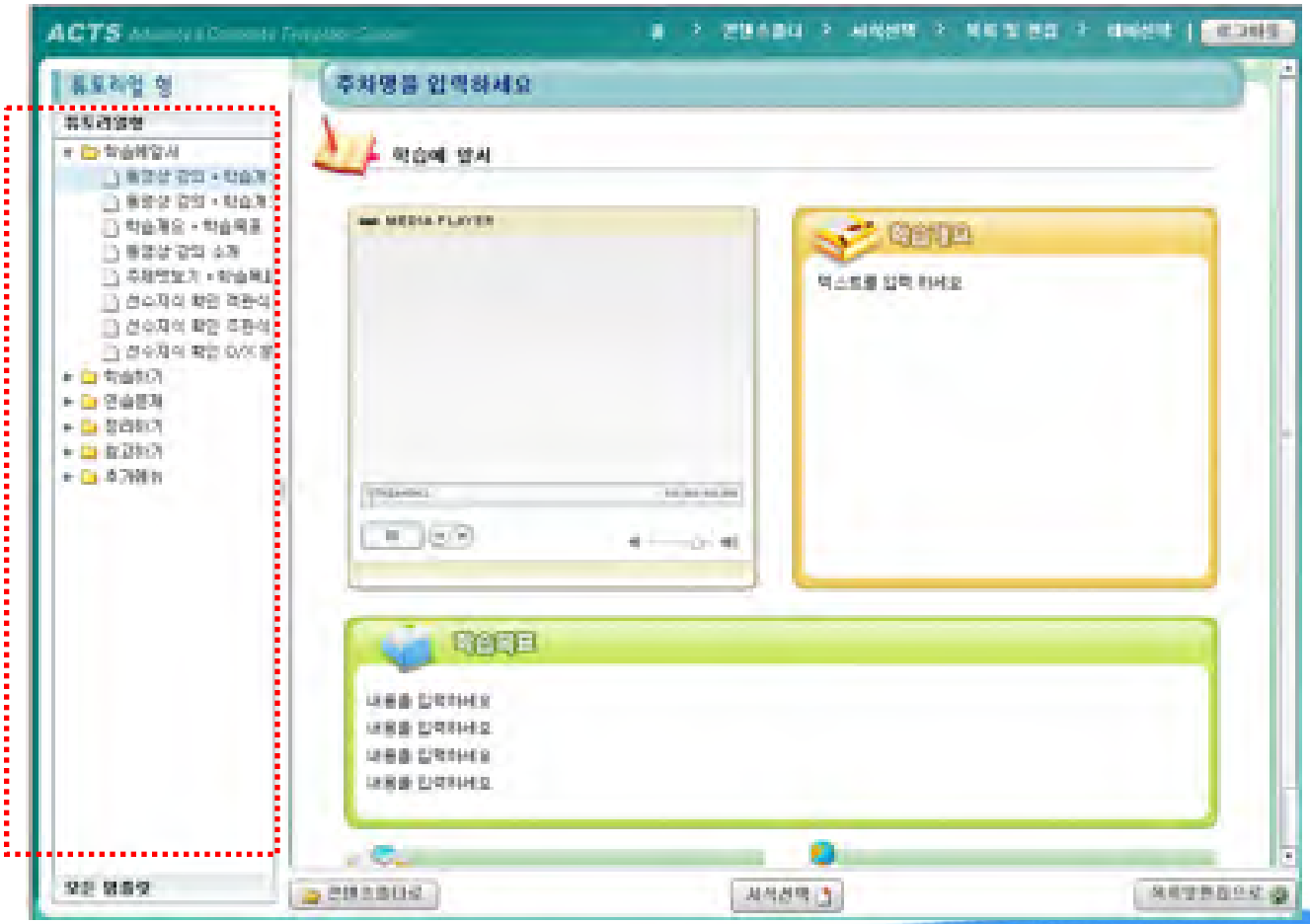
Select lecture type

- Select pre-defined lecture type according to the instructional method



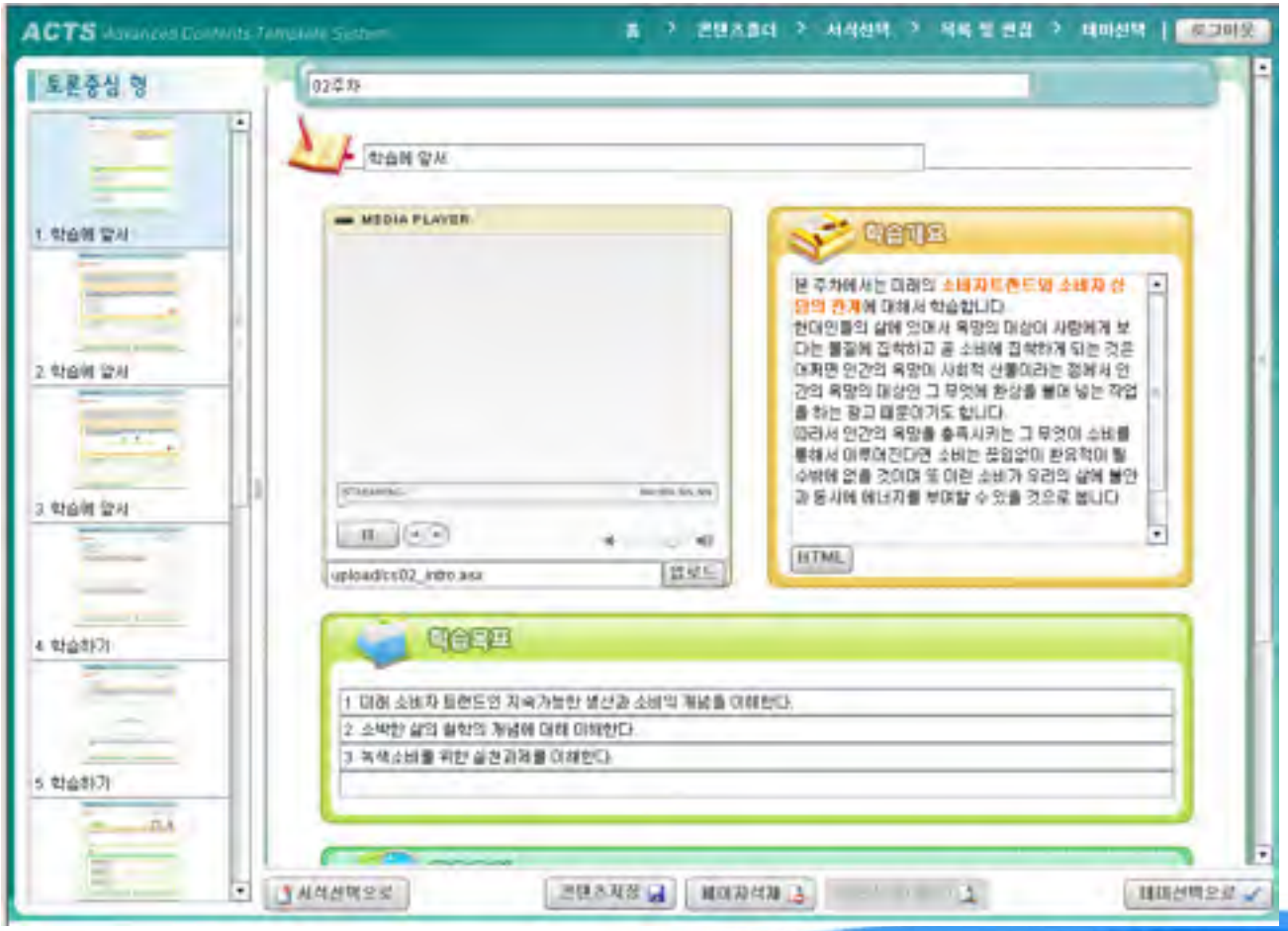
Select contents form

- Select appropriate contents form in the learning event lists



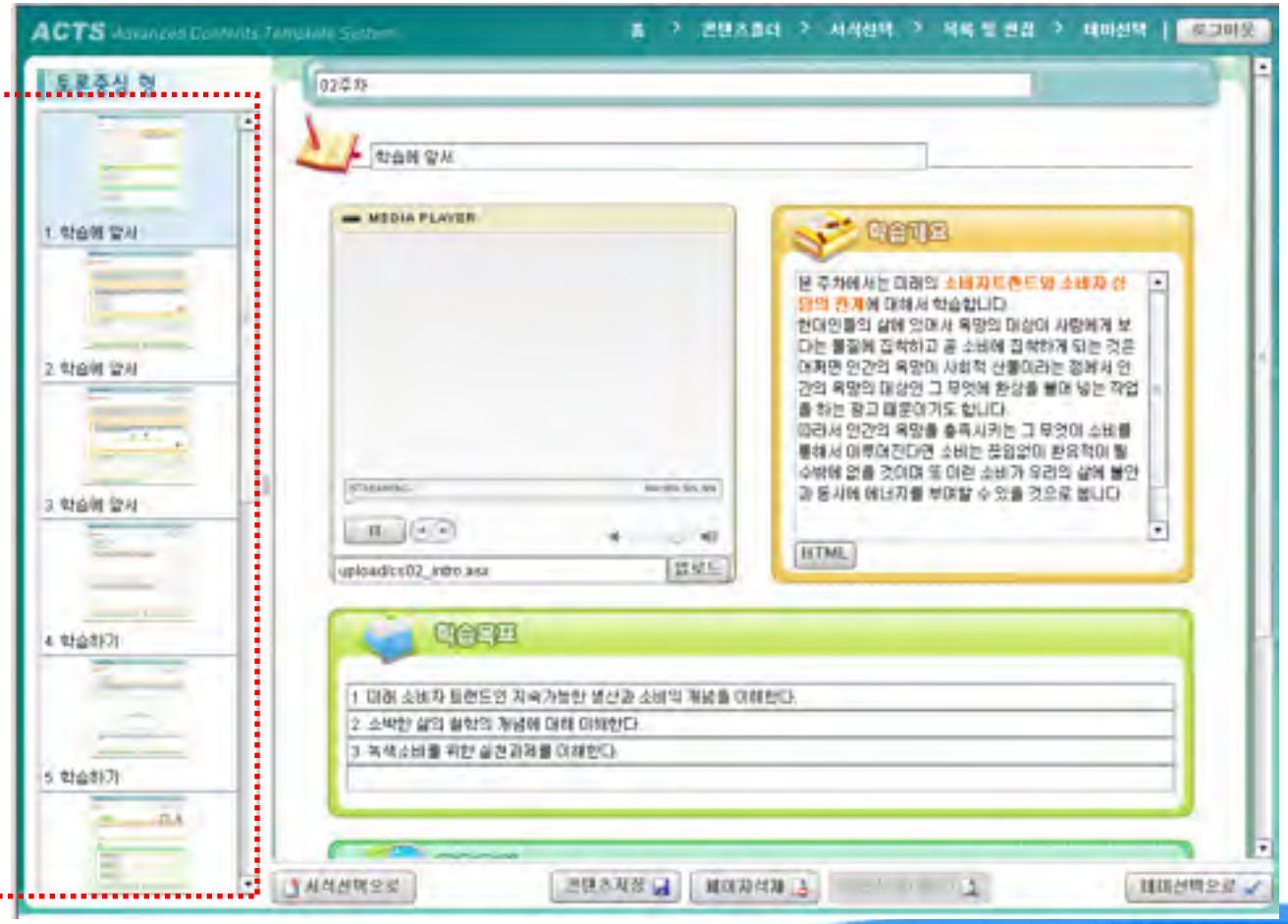
Page creation

- Fill in appropriate substance in the selected learning event page



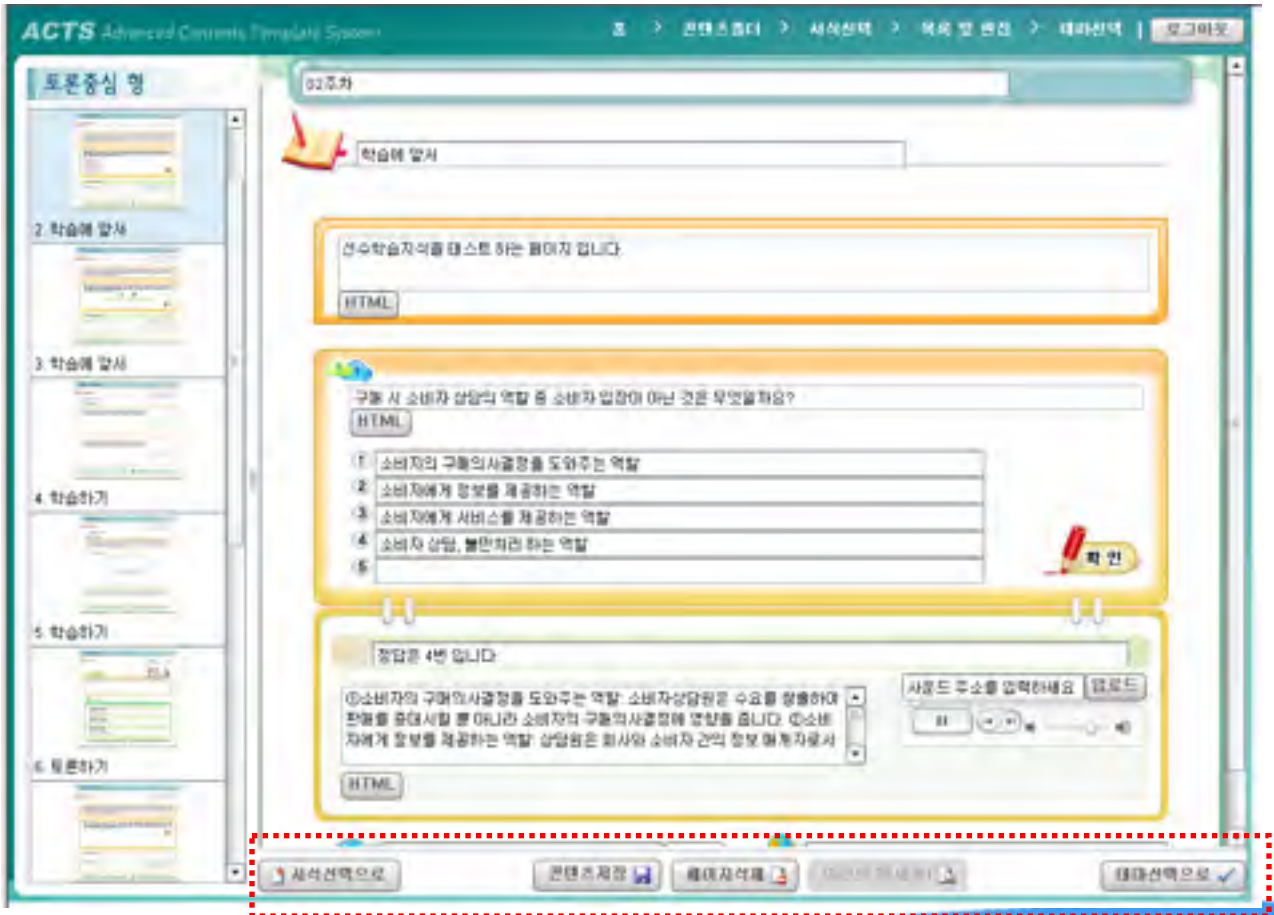
Save page

- After saving each page, saved page lists is showed in the left side



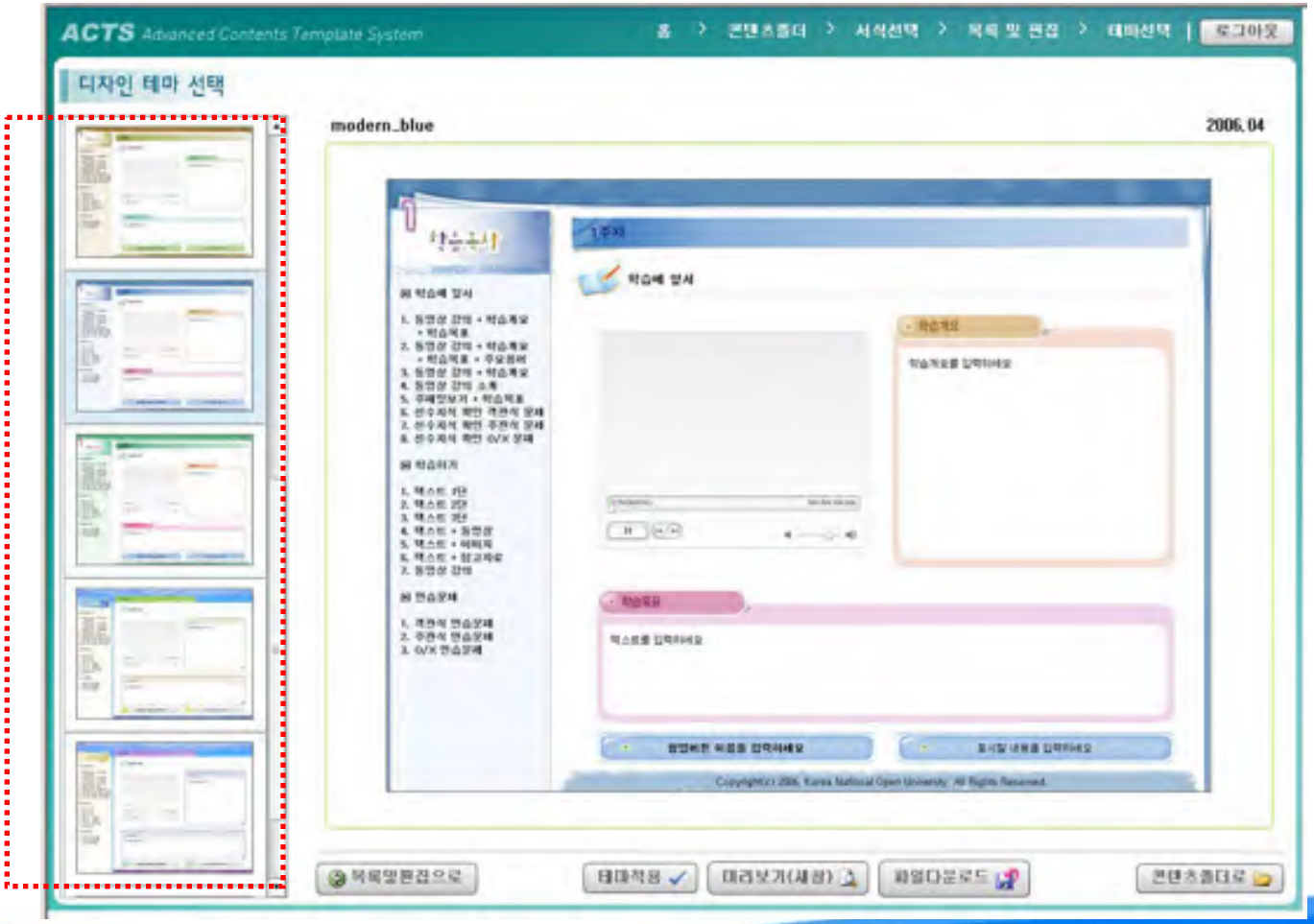
Navigation for other work items

- After saving contents form, select other work items using navigation button



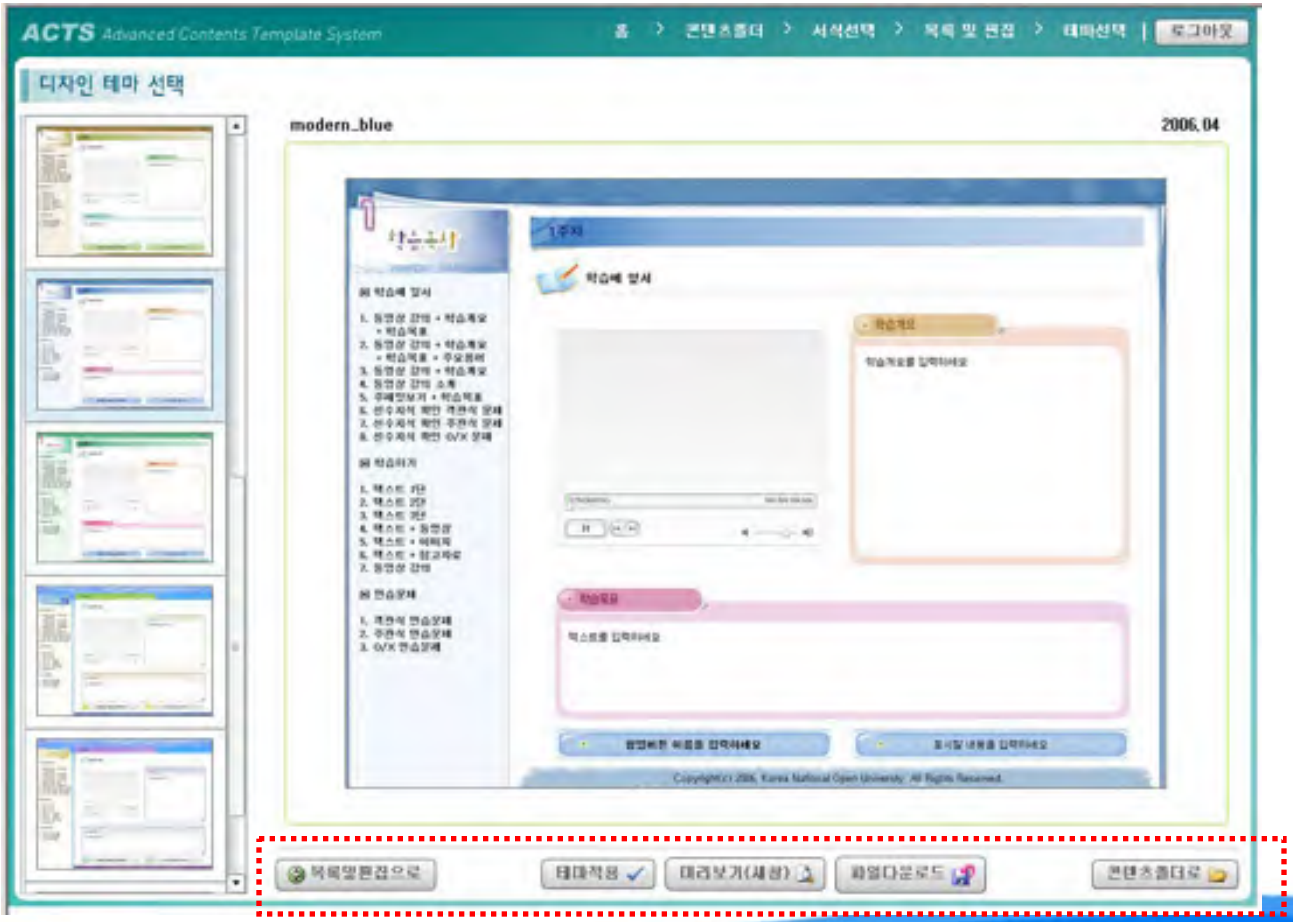
Select design theme

- Select pre-designed theme for the contents



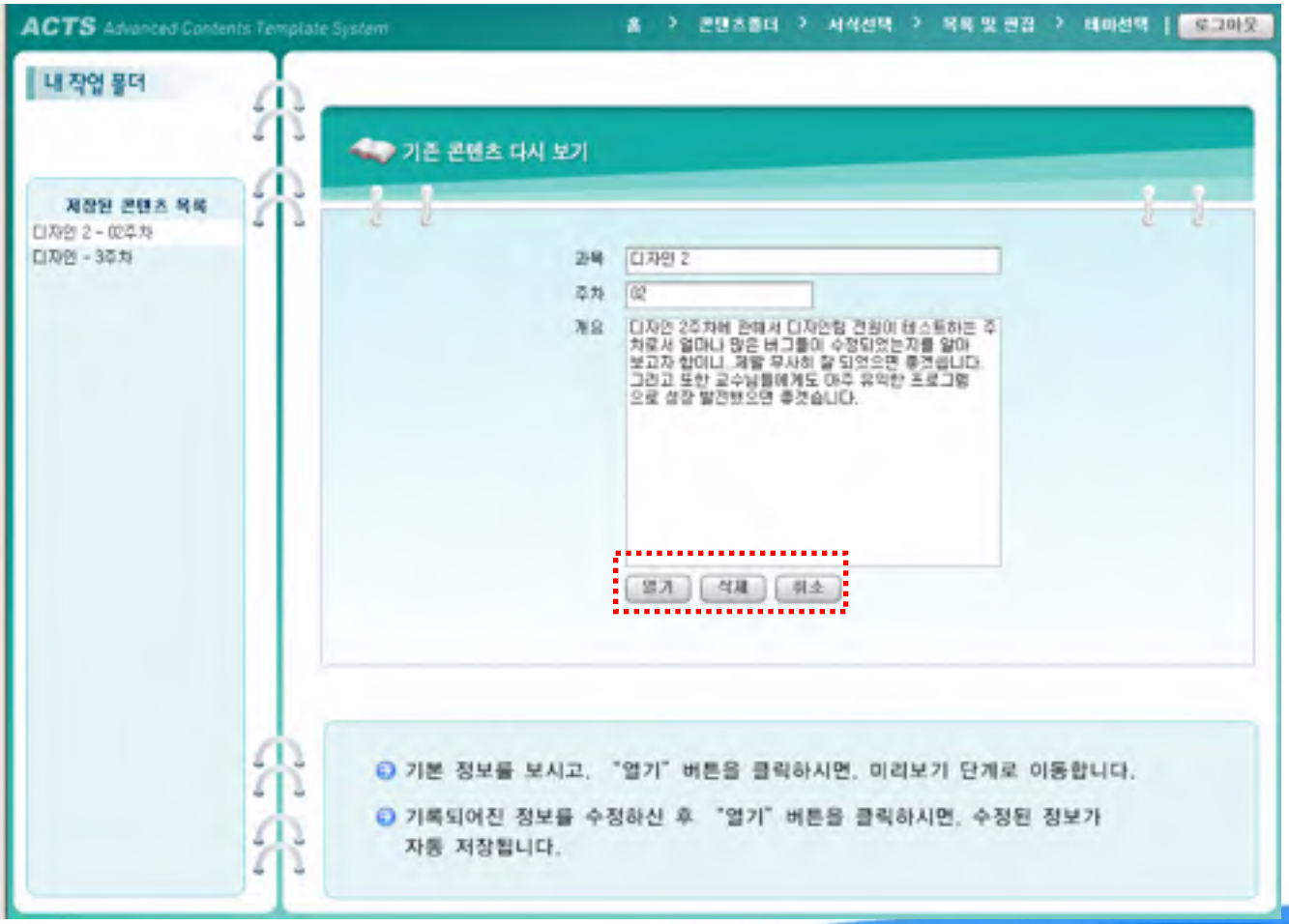
Apply theme

- After applying theme, check the developed-contents using preview or download(zip)



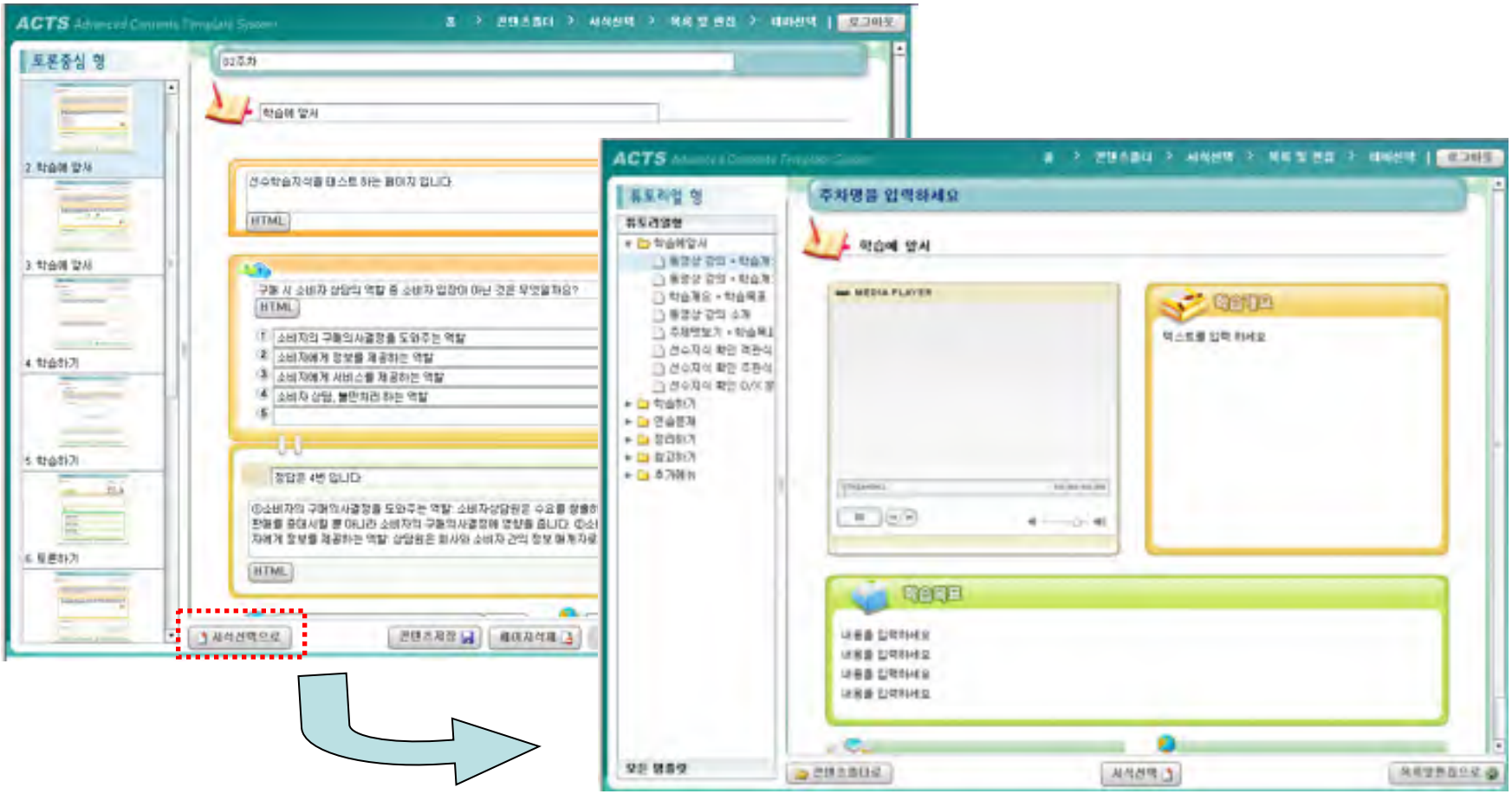
Open created contents

- Open and edit already developed contents



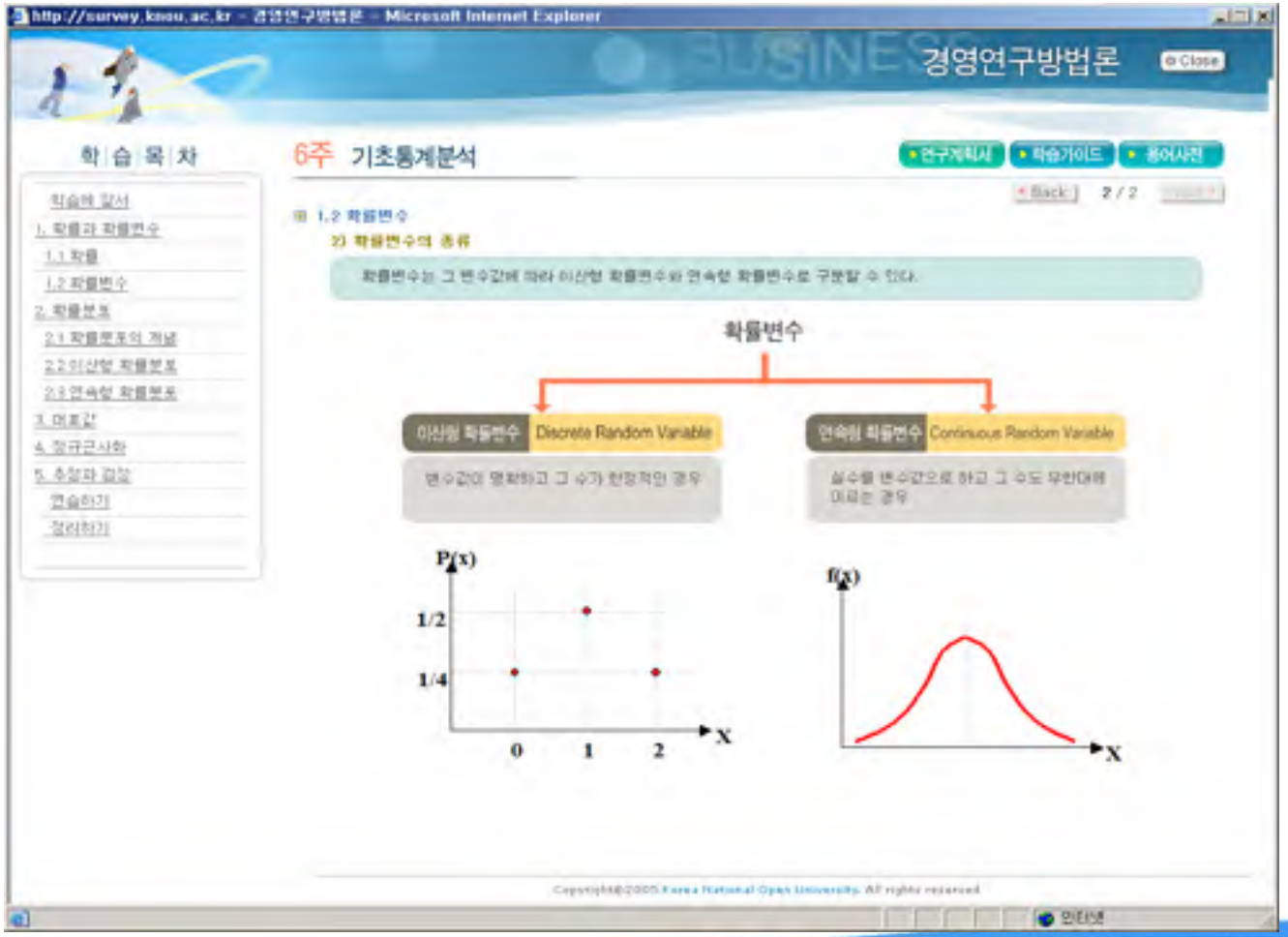
Add contents form

- Add additional contents form to already developed contents



Output (Final Product)

- Completed Content is saved as Adobe's "Flash" file type

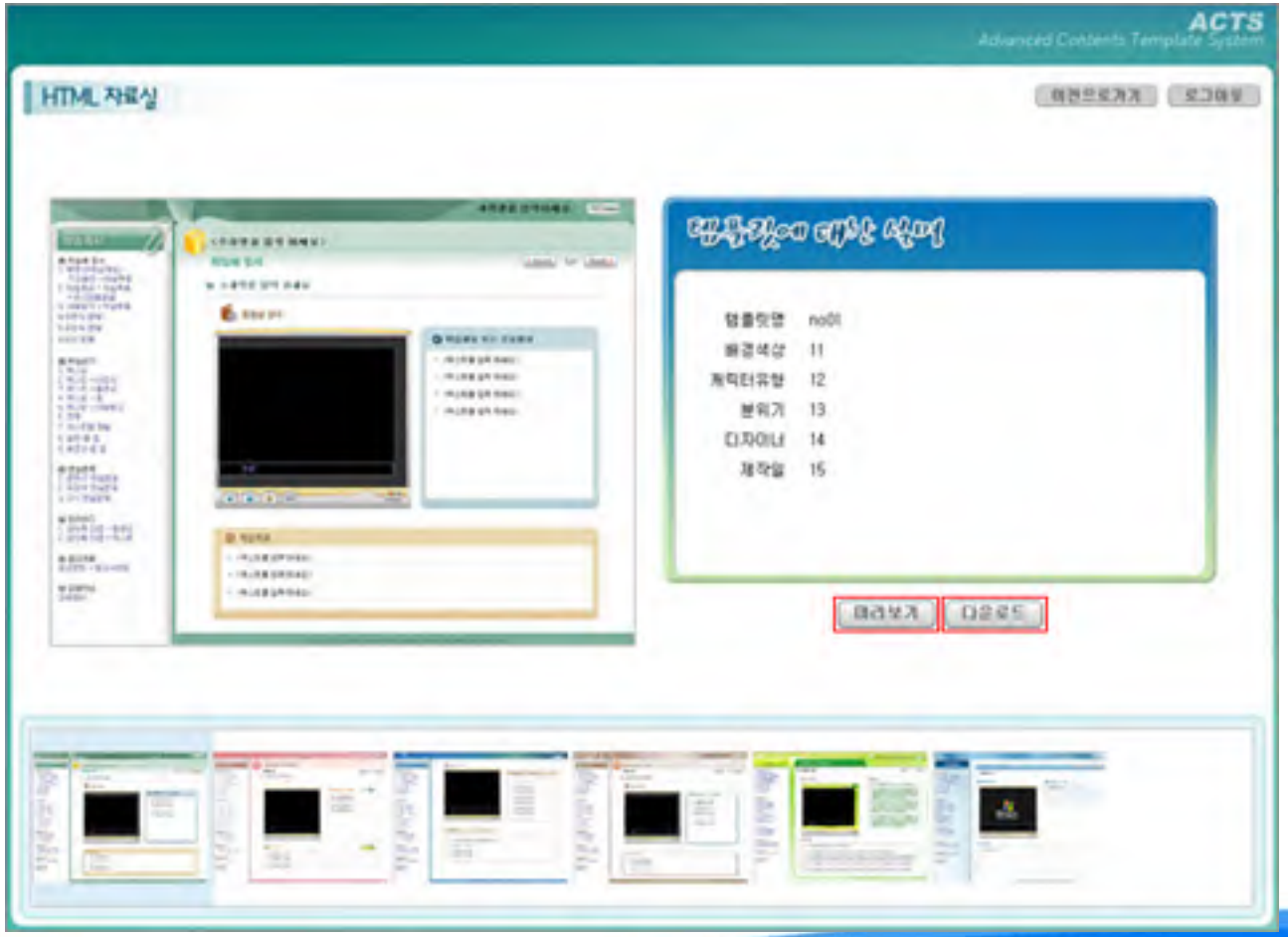


Select work item (2)

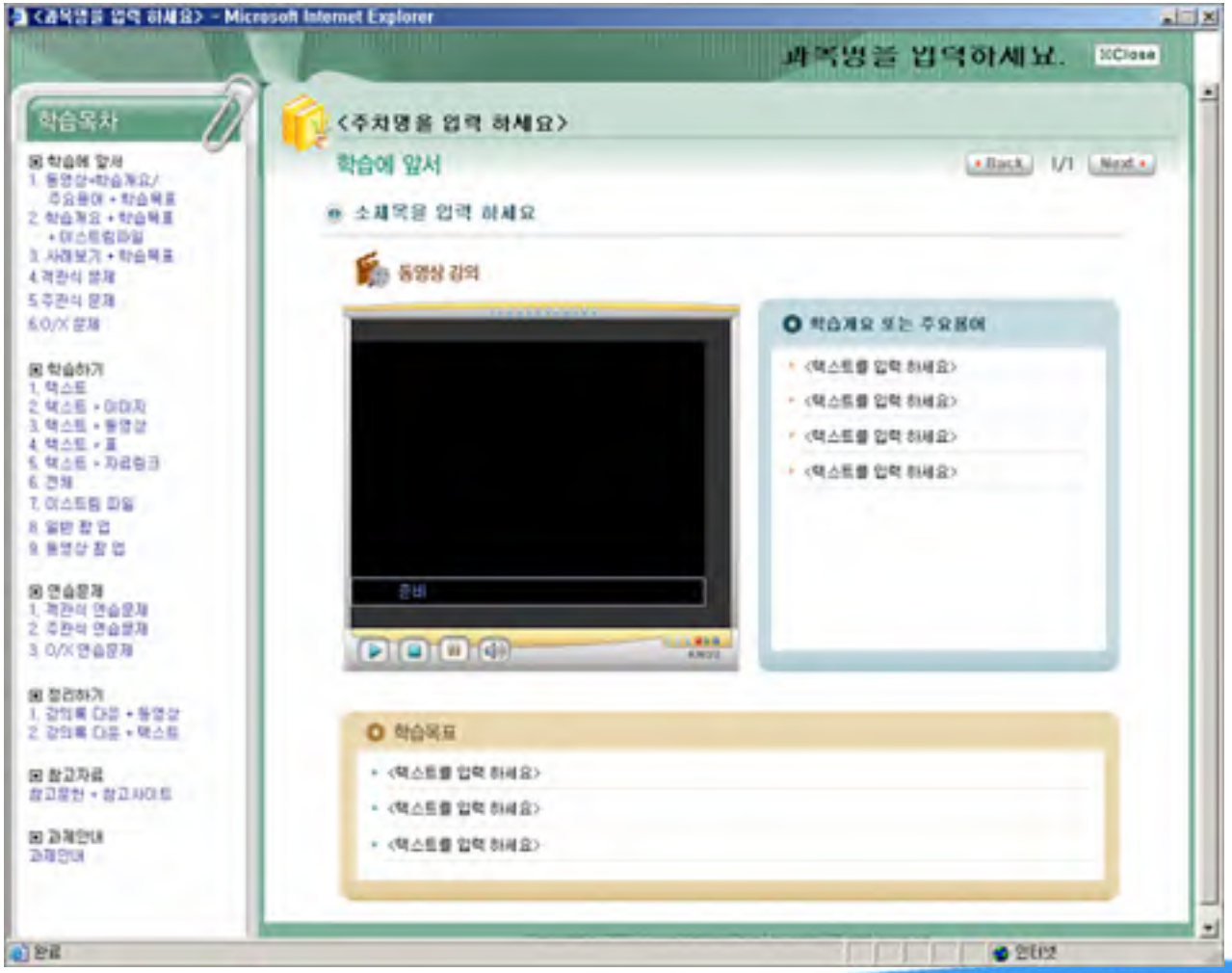
- Select HTML based template download
  or online contents authoring using ACTS

HTML template download

- Download already developed HTML-based templates



Preview HTML format



Instructor handles the HTML codes

Notepad

Web Editor

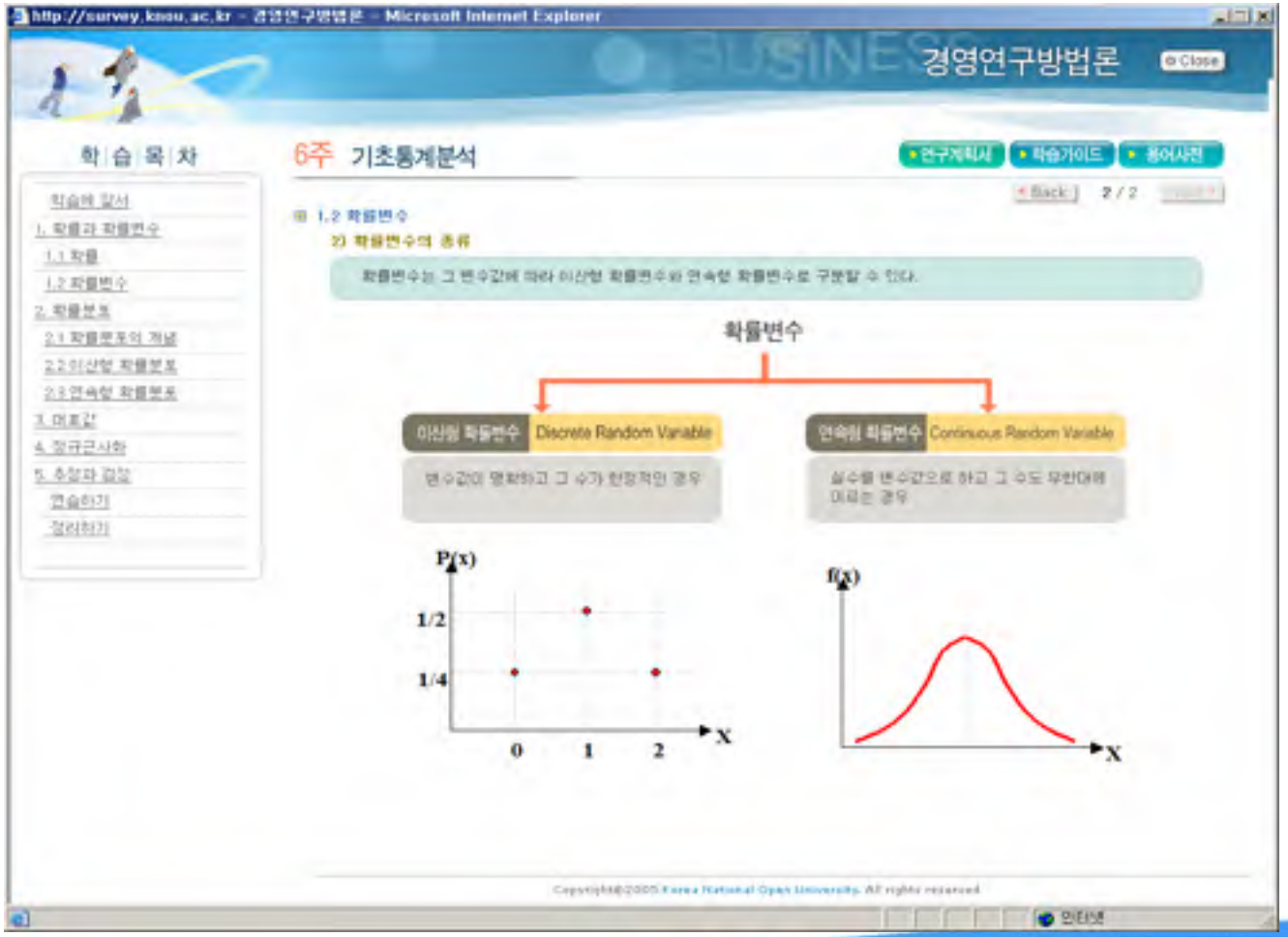
Dreamweaver

Instructor

```
<head>
<title>종합정보시스템 로그인 페이지</title>
<meta http-equiv="Content-Type" content="text/html; charset=euc-kr">

<script language="JavaScript" type="text/JavaScript">
<!--
function MM_reloadPage(init) {  //reloads the window if Nav4 resized
  if (init==true) with (navigator) {if ((appName=="Netscape")&&(parseInt(appVersion)==4)) {
    document.MM_pgW=innerWidth; document.MM_pgH=innerHeight; onresize=MM_reloadPage; }}
  else if (innerWidth!=document.MM_pgW || innerHeight!=document.MM_pgH) location.reload();
}
MM_reloadPage(true);

function MM_preloadImages() { //v3.0
  var d=document; if(d.images){ if(!d.MM_p) d.MM_p=new Array();
    var i,j=d.MM_p.length,a=MM_preloadImages.arguments; for(i=0; i<a.length; i++)
    if (a[i].indexOf("#")!=0){ d.MM_p[j]=new Image; d.MM_p[j++].src=a[i];}}

function MM_swapImgRestore() { //v3.0
  var i,x,a=document.MM_sr; for(i=0;a&&i<a.length&&(x=a[i])&&x.oSrc;i++) x.src=x.oSrc;

function MM_findObj(n, d) { //v4.01
  var p,i,x;  if(!d) d=document; if((p=n.indexOf("?"))>0&&parent.frames.length) {
    d=parent.frames[n.substring(p+1)].document; n=n.substring(0,p);}
  if(!(x=d[n])&&d.all) x=d.all[n]; for (i=0;!x&&i<d.forms.length;i++) x=d.forms[i][n];
  for(i=0;!x&&d.layers&&i<d.layers.length;i++) x=MM_findObj(n,d.layers[i].document);
  if(!x && d.getElementById) x=d.getElementById(n); return x;
}

function MM_swapImage() { //v3.0
  var i,j=0,x,a=MM_swapImage.arguments; document.MM_sr=new Array; for(i=0;i<(a.length-2);i+=3)
   if ((x=MM_findObj(a[i]))!=null){document.MM_sr[j++]=x; if(!x.oSrc) x.oSrc=x.src; x.src=a[i+2];}
}
//-->
</script>
```

Output (Final Product)

- Completed Content is saved as plain HTML codes



5. Effects of ACTS

1. Advantages of ACTS

- Relatively low-cost
- Time-saving
- Assures basic-quality contents
- WYSIWYG based content-creation
- Based on the Internet, instructor can produce contents at anyplace
- Output file type is Flash, so it can be worked on any platform (OS)

2. Limitations of ACTS

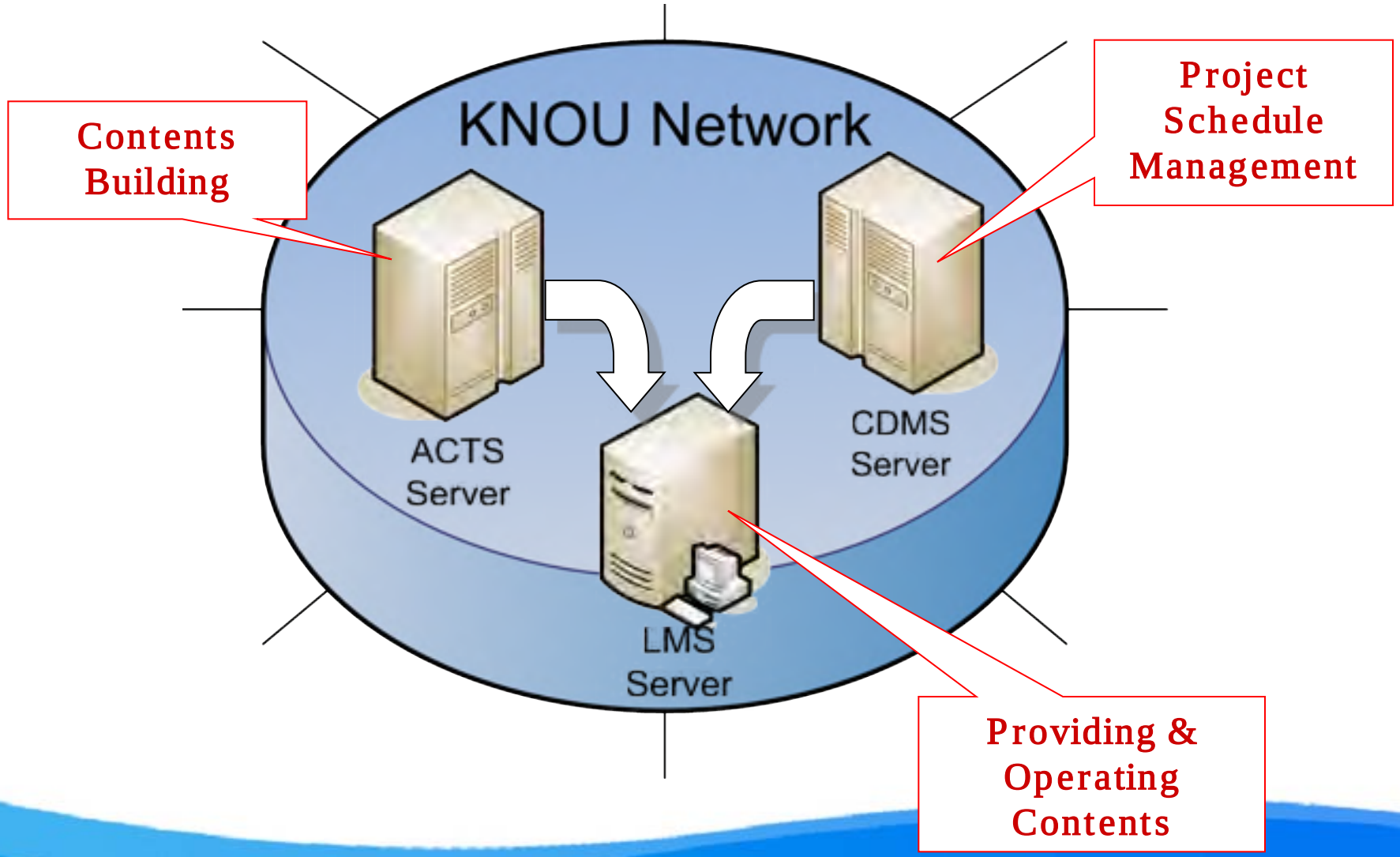
- ACTS provides “Rich Text Editor” in nature, it may not provide all the items which instructor want to use (For example, subscript or superscript is not possible until now).
- Periodically renewal templates, or it produce out-dated contents

3. CSFs (Critical Success Factors)

- Constantly renewal the templates by designers
- R&D for various lecture type and design themes

Appendix

Relations among CDMS, ACTS and LMS



KNOU prepares DAM System & DRM

1. DAM (Digital Asset Management)

- So called “Media Archive System”
- Video or audio files are saved as divided modules
- By each module, meta-data is recorded
- Users or multimedia-producers can query module based video or audio files
- “One source multi use” can be accomplished by DAM

2. DRM (Digital Rights Management)

- DRM is not software, it is a set of rules
- Rules consist of encryption modules and/or anti-theft modules
- Copyright protection for contents, DRM is needed
- It also secures the right of using for authorized users

Thank You !