MMS Merit Matrix Solution

G
Janga Tech.

NCS – News Center System

User Manual

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2002.01.28

Index

Introduction

NCS design is based on the requirement of News Center System document.[1] NCS system will release news on the Internet/Intranet that comes from the authorized department and the organizations. Authorized people can send news to News Center by using Internet from any location and at anytime. News center can receive, store and publish the news, which come from authorized people (reporters). The public can browse and query the news of News center by visiting the web site. NCS can be thought as a news release platform. Authorized people can release their news by using this platform.

NCS System data structure

NCS is developed by the pure Java language and OS independent system. NCS only need the OS independent JDK or JRE environment and Servlet engine Tomcat on the server.

NCS system is based on the NCS database system. Database can be selected as Oracle, Sybase, SQL Server, Other ODBC connectable database or Flat text database. Currently using Oracle database and ODBC connectable database.

NCS news files and the attached objects files are stored as a text files on the server

All of the system configuration and setup can be completed on Internet/Intranet.

Before explaining how to use the NCS system, let us introduce the NCS Information structures In NCS system, we have Departments, Users, News, News classes, News Priorities, News Principals 6 tables. Now introduce the 6 tables each by each.

Department

Department is the main organization group what news will be grouped by in the system. The department we have following information in NCS system.

FIELD NAME	FIELD TYPE	FIELD CONSTRAINT
DEPARTMENT_ID	NUMBER PRIMARY KEY,	
CODE	VARCHAR2 (16)	NOT NULL
NAME	VARCHAR2 (128)	NOT NULL
LOCATION	VARCHAR2 (32)	
ADDRESS	VARCHAR2 (256)	
PHONE_NUMBER	VARCHAR2 (32)	
MANAGER_ID	NUMBER	
PARENT_ID	NUMBER	
CREATED_BY	NUMBER	
CREATE_DATE	DATE	
UPDATED_BY	NUMBER	
UPDATE_DATE	DATE	

The Department table has a hierarchy structure using the parent_id to join with the itself. For example the hierarchy definition as bellow.

00000000	TOP ORGANIZATION	☐
A0010000	GROUP A	☐
A0010100	GROUP A DEPARTMENT I	☐
A0010101	GROUP A DEPARTMENT I SECTION ONE	☐
A0010102	GROUP A DEPARTMENT I SECTION TWO	☐
A0010200	GROUP A DEPARTMENT II	☐
A0010101	GROUP A DEPARTMENT II SECTION ONE	☐
B0010000	GROUP B	☐
B0010100	GROUP B DEPARTMENT I	☐
B0010101	GROUP B DEPARTMENT I SECTION ONE	☐
B0010102	GROUP B DEPARTMENT I SECTION TWO	☐

B0010200	GROUP B DEPARTMENT II	☐
B0010101	GROUP B DEPARTMENT II SECTION ONE	☐
C0010000	GROUP C	☐
C0010100	GROUP C DEPARTMENT I	☐
C0010101	GROUP C DEPARTMENT I SECTION ONE	☐
C0010102	GROUP C DEPARTMENT I SECTION TWO	☐
C0010200	GROUP C DEPARTMENT II	☐
C0010101	GROUP C DEPARTMENT II SECTION ONE	

User

NCS system needs to setup the authorized users on the system. The users have to be a member of specific organization. Later when the user publishes news, the news will be grouped into the organization (department) User definition table structure is bellow.

FIELD NAME	FIELD TYPE	FIELD CONSTRAINT
USER_ID	NUMBER	PRIMARY KEY
EMPLOYEE_NUMBER	VARCHAR2 (16)	NOT NULL
USERNAME	VARCHAR2 (16)	NOT NULL
PASSWORD	VARCHAR2 (16)	NOT NULL
FIRSTNAME	VARCHAR2 (32)	
LASTNAME	VARCHAR2 (32)	
E_MAIL	VARCHAR2 (64)	
DEPARTMENT_ID	NUMBER	
CREATED_BY	NUMBER	
CREATE_DATE	DATE	
UPDATED_BY	NUMBER	
UPDATE_DATE	DATE	

News class

News Classes is the main classification of the news. Users need to publish news in the proper class. Public will use the news class to browse and query the news. News Classes table is a value list table. Only have code and description fields.

FIELD NAME	FIELD TYPE	FIELD CONSTRAINT
CLASS_ID	NUMBER	PRIMARY KEY
NEWSCLASS	VARCHAR2 (64)	NOT NULL
DESCRIPTION	VARCHAR2 (128)	
CREATED_BY	NUMBER	
CREATE_DATE	DATE	
UPDATED_BY	NUMBER	
UPDATE_DATE	DATE	

News priority

News priority is for prioritizing the news in the list when browse the news. The manager can maintain the priority table to let NCS can hold many priority levels. News Priorities table only has value and description fields.

FIELD NAME	FIELD TYPE	FIELD CONSTRAINT
PRIORITY_ID	NUMBER	PRIMARY KEY
PRIORITY	VARCHAR2 (8)	NOT NULL
DESCRIPTION	VARCHAR2 (128)	
CREATED_BY	NUMBER	
CREATE_DATE	DATE	
UPDATED_BY	NUMBER	
UPDATE_DATE	DATE	

News principal

News Principal is for define any news publishing and maintaining principals. Currently not linked with any principals in the NCS. This is for future usage. News Principals table only has value and description fields too.

News	FIELD TYPE	FIELD CONSTRAINT
PRINCIPAL_ID	NUMBER	PRIMARY KEY
PRINCIPAL	VARCHAR2 (64)	NOT NULL
DESCRIPTION	VARCHAR2 (128)	
CREATED_BY	NUMBER	
CREATE_DATE	DATE	
UPDATED_BY	NUMBER	
UPDATE_DATE	DATE	

News

News is the main Information in the NCS system. News table have following fields.

FIELD NAME	FIELD TYPE	FIELD CONSTRAINT
NEWS_ID	NUMBER	PRIMARY KEY,
NEWSTITLE	VARCHAR2 (160)	
NEWSCLASS	VARCHAR2 (32)	
PRIORITY	VARCHAR2 (8)	
RELEASEDATE	DATE	
DEPARTMENT_ID	NUMBER	
REPORTER	VARCHAR2(32)	
PRINCIPAL	VARCHAR2 (64)	
KEYWORDS	VARCHAR2 (255)	
FILENAME	VARCHAR2 (128)	
OBJPATH	VARCHAR2 (125)	
OBJECTS	VARCHAR2 (255)	
HYPERLINK	VARCHAR (128),	
STATUS	VARCHAR2 (8)	Not used yet
CREATED_BY	NUMBER	
CREATE_DATE	DATE	
UPDATED_BY	NUMBER	
UPDATE_DATE	DATE	

News has news properties information like class, priority, principal, release date; belong to which department, reporter, keywords, related hyperlinks etc. and News body text. News body text is stored in the file name by the filename field and under objpath directory.

News also have many attached objects can save under objpath. Object name is stored in objects fields.

News Browse

URL of NCS

URL of the NCS system will be different each other according to your installation. I am assuming installed the tomcat on the 8080 port of the JRVAIO server. In this case the URL will be

http://JRVAIO:8080/NCS/main

When you click this URL, you will get the page as bellow.
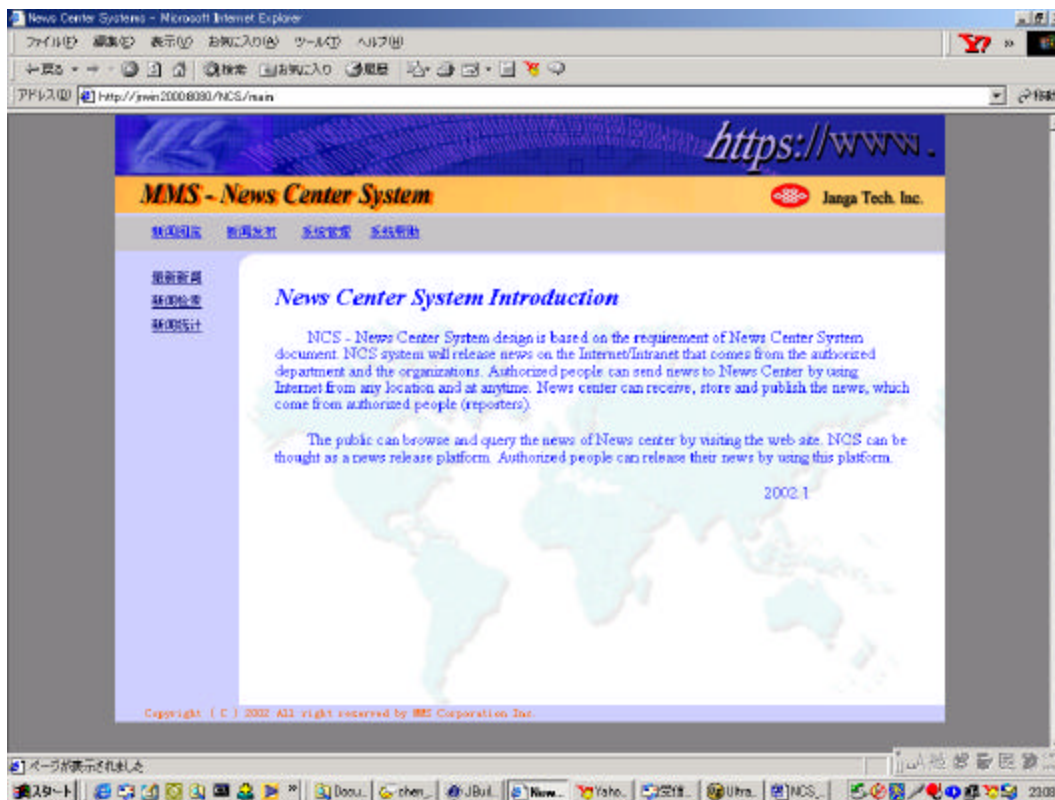
Click News Browse menu to get into News browse function. News browses no need to sign on. Public can browses the public authorized (according to principal in later).

News Browsing

News Browse Page is shown as bellow.
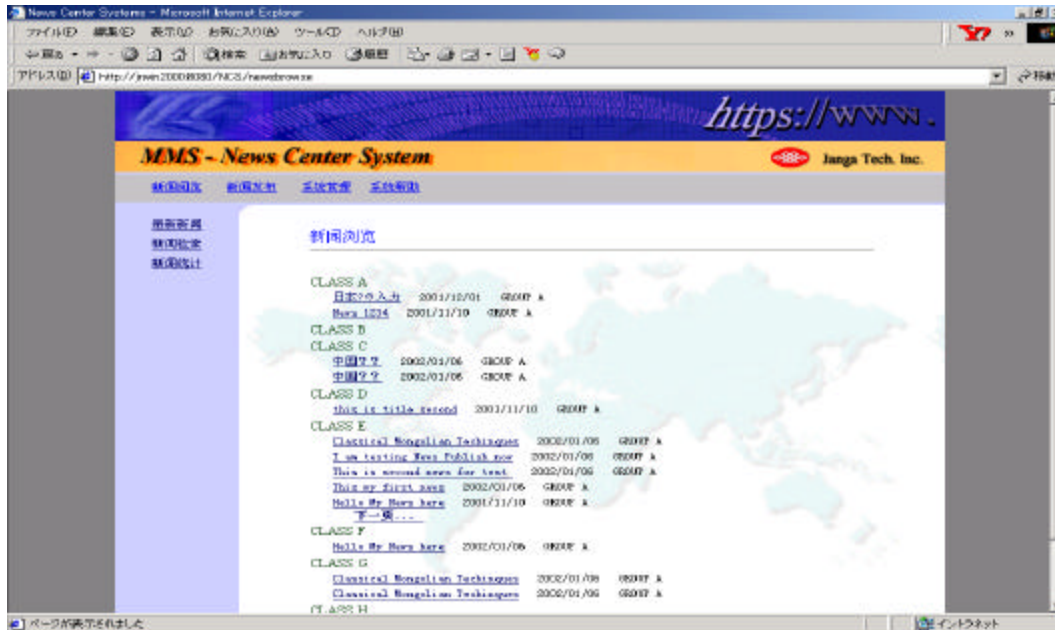
On the browse page the news is grouped by the class and listed as priority and date sorted.

If one class have more than five news there will be have one 'more news …' link. Click this link get into the specific class news list as bellow. This page will be paged in 20 lines.
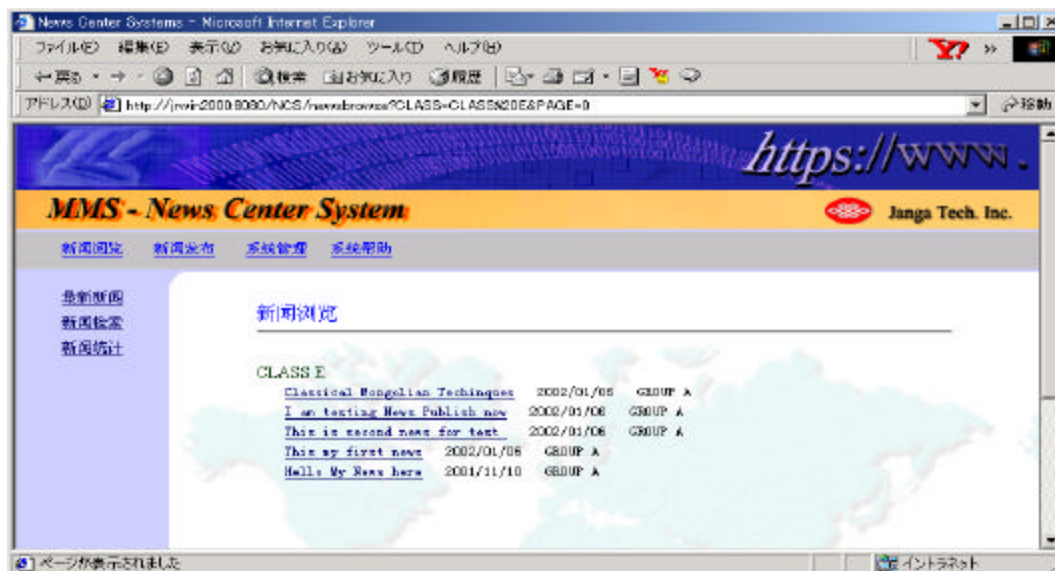
Specific Class news list can be moved to next page and previous page.

News Reading

Click on the news title to open the news-reading page.

News Query

Click the News Query menu to get into News Query Module.

Input the Keywords in the input box and click GO button to query news. The search pattern is separated by comma is mean condition combination 'or'.
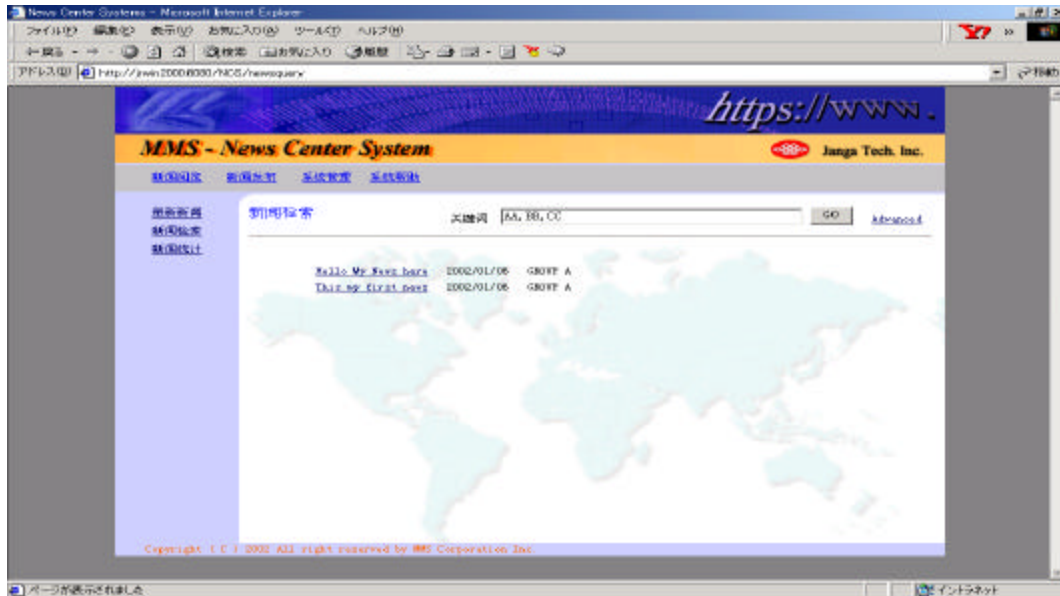
The result is paging by each 10 items. And can browse into each page by clicking next and pervious links.

By clicking advanced link to get advanced search page. On this page you can input the search

condition combinations.
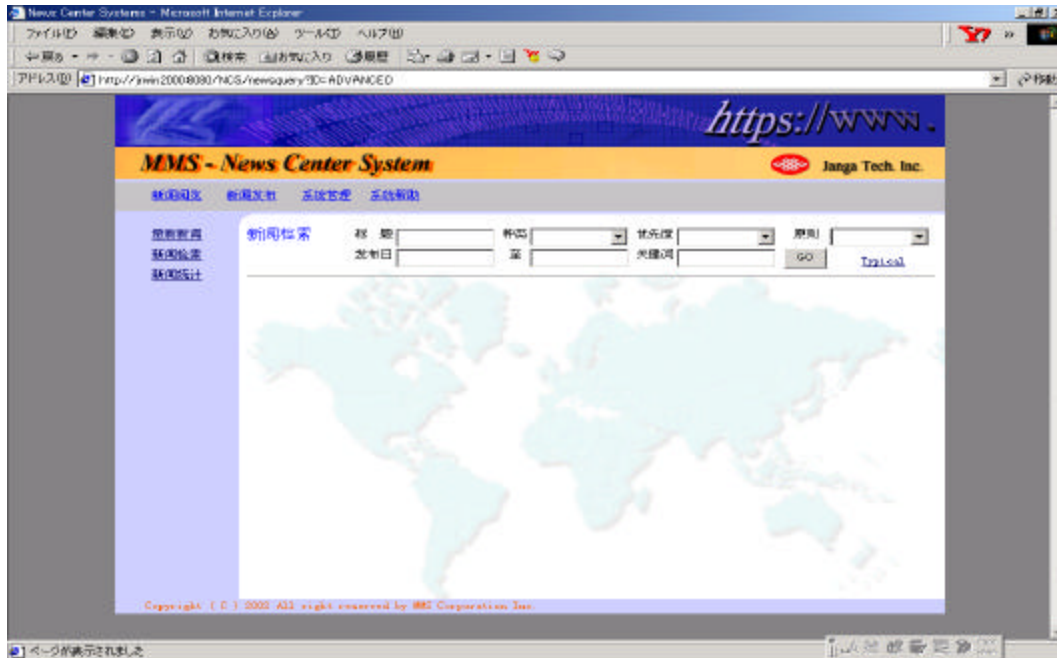
Click GO button to begin search. And the result can be browsed in pages.
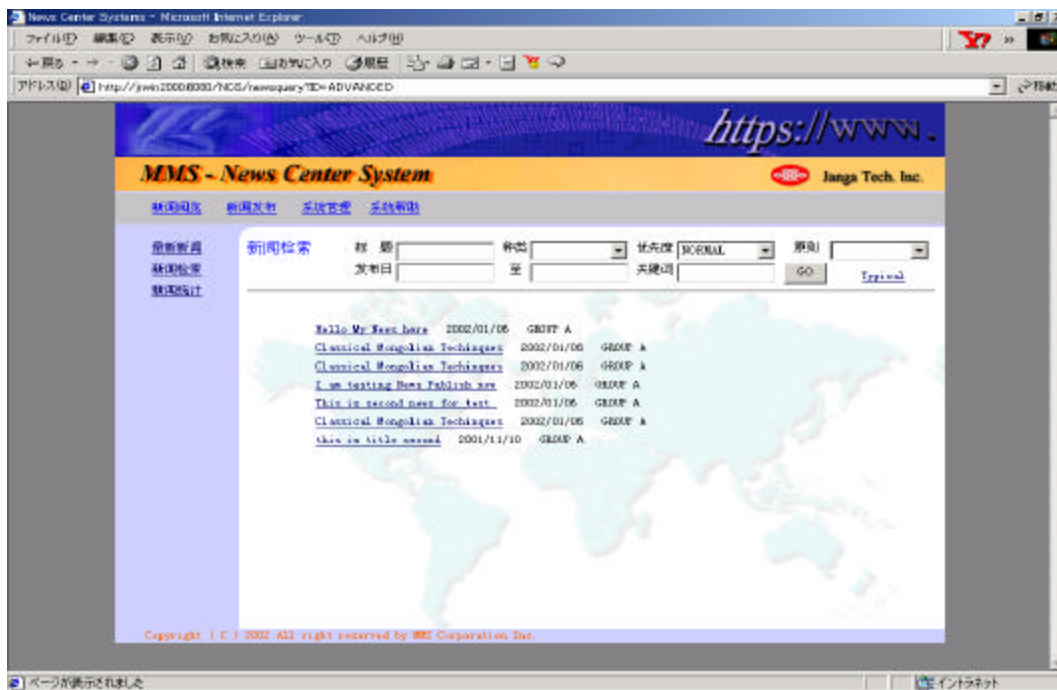
News Publish

Sign On

For News publishing, you should be authorized user and have to sign on the system. Click the Sign on menu to get into sign on page.
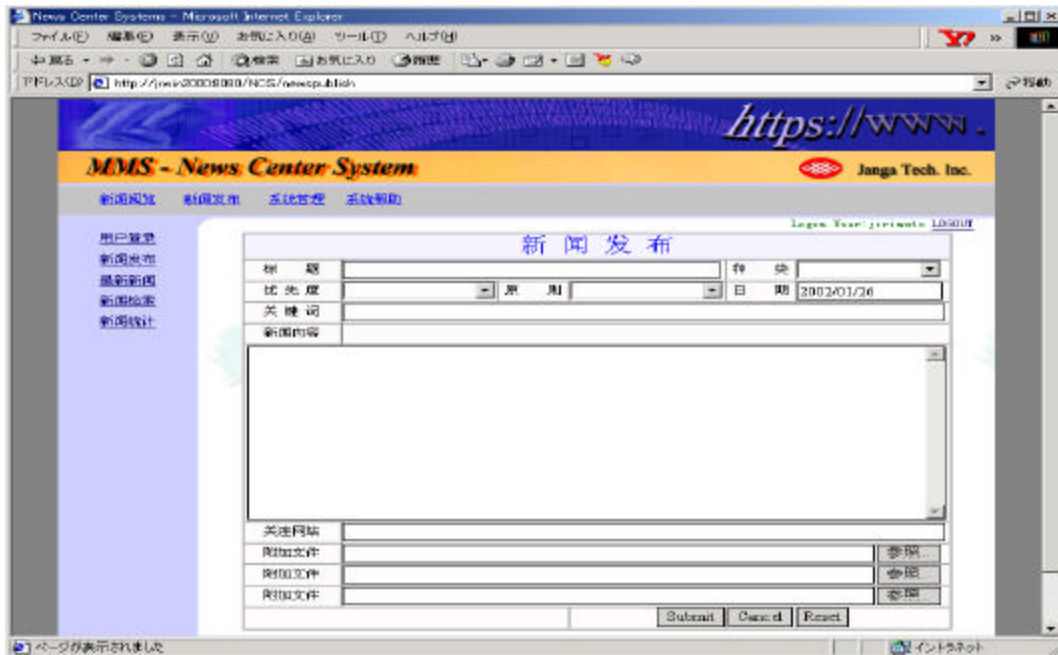
Please input your Username and Password for NCS system to sign on.
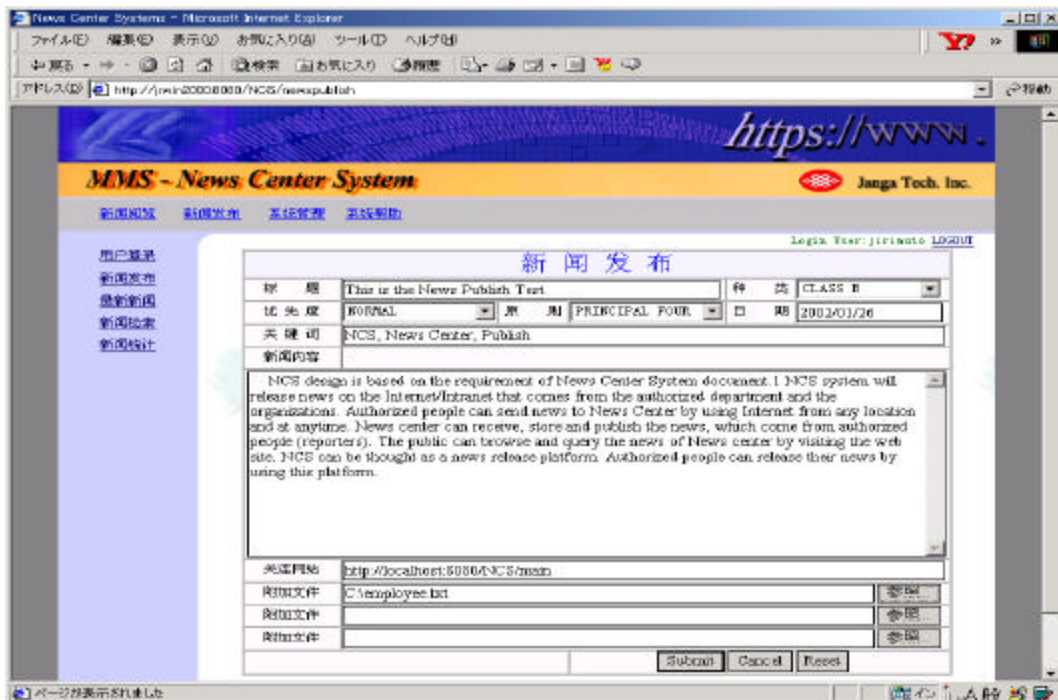
News Publish

Click News Publish Menu to open the News Publish Form.

You can fill the form and push submit button to publish your news.

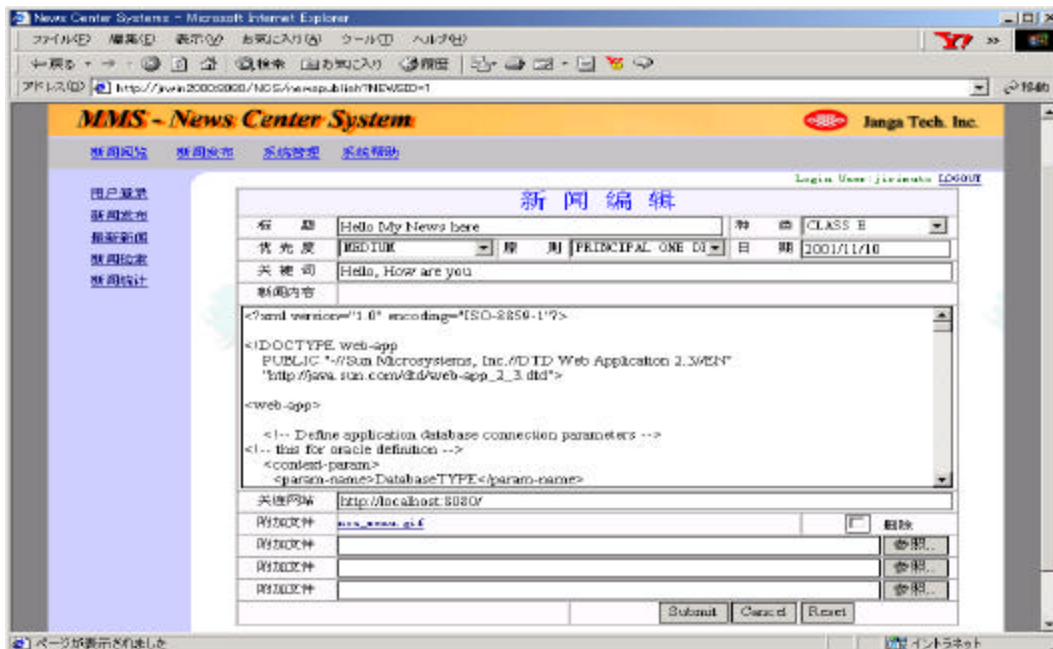After Submit you can get the Successful message.

News Modify

News Browse under sign on status

Under the Sign on status, when you are news browsing, if the news is yours news, there will be one link to edit the news.

Click the Edit link you can edit the existing news published by yourself.

You can edit every field as well as the attached objects. Check the delete check box to delete the existing objects.
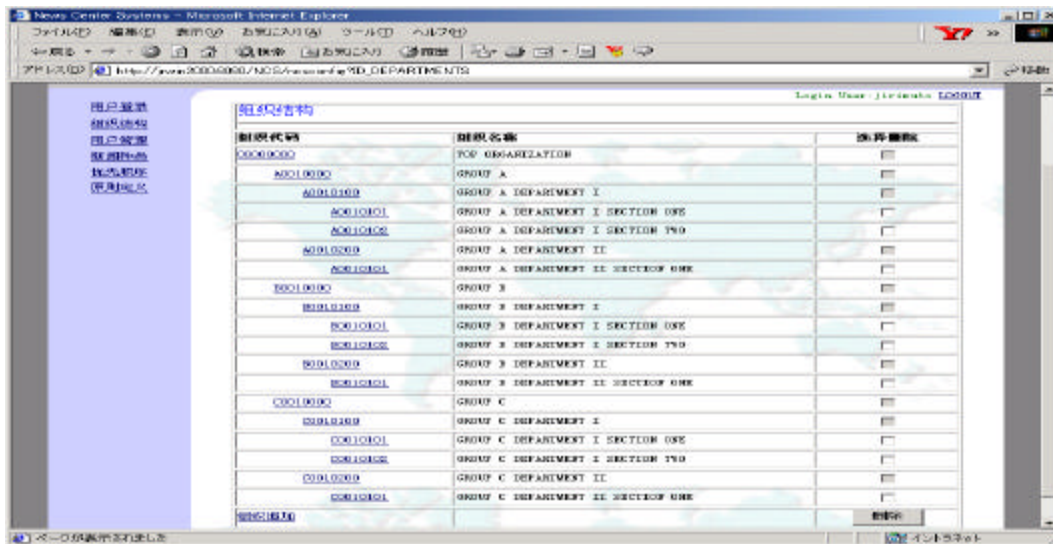
NCS configuration

Configuration main menu

Click the NCS Config menu to get into NCS Configuration main menu.

Department Configuration

Click the Department Configuration menu to get into maintain form.

Department is shown on this list with the their hierarchy. For Adding department, click the ADD DEPARTMENT link on last line. For Edit department click the specific department. For delete department check the specific department check box and push the delete button. But the department is not the leaf department the check box is disabled. Following is the department editing form.
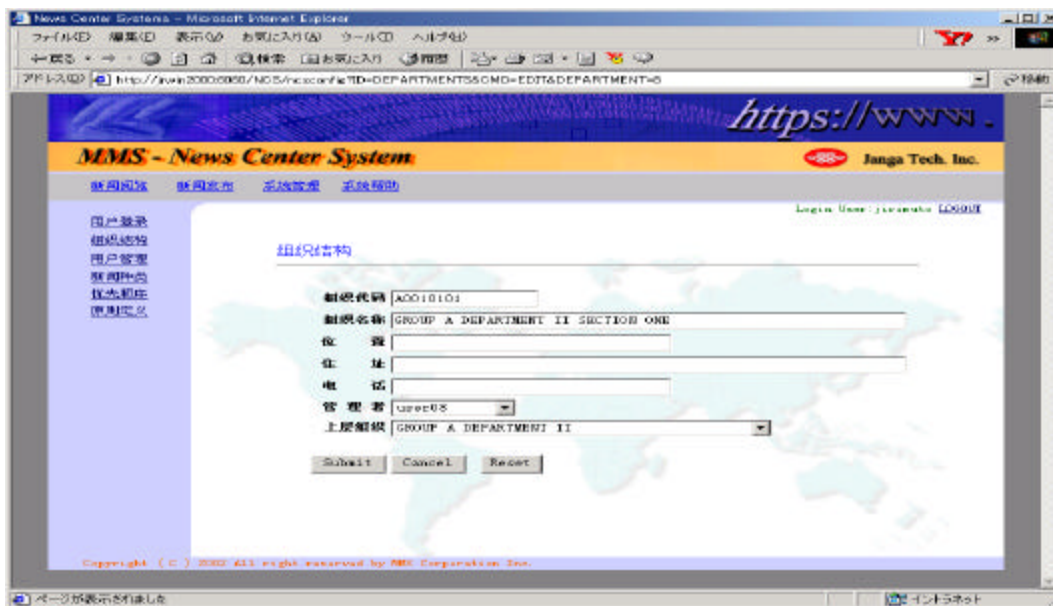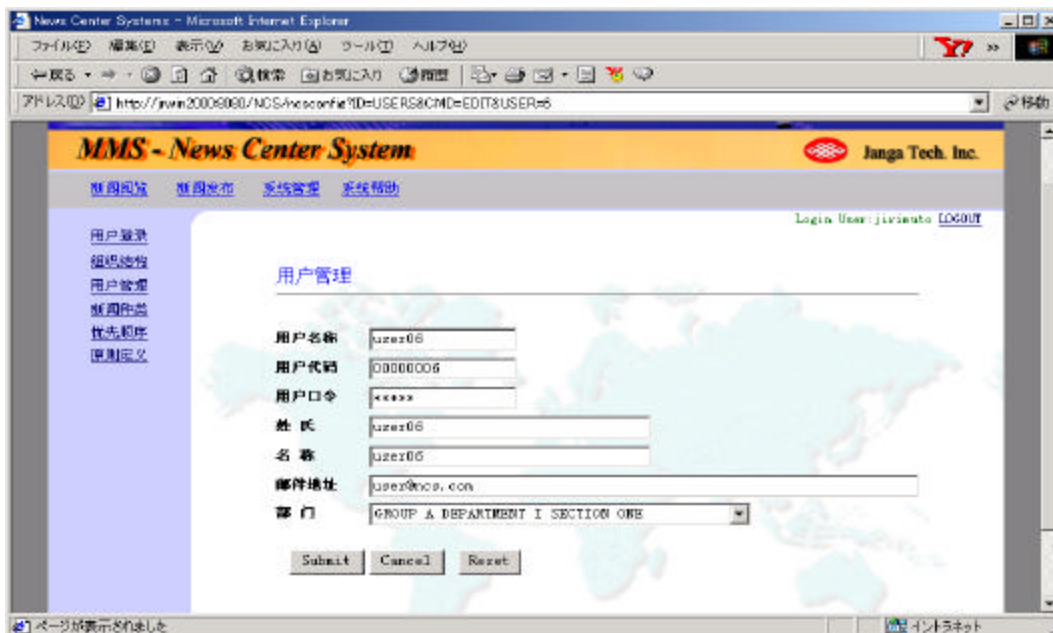
NCS User Registration

Click the NCS User Registration menu to get into maintain form.
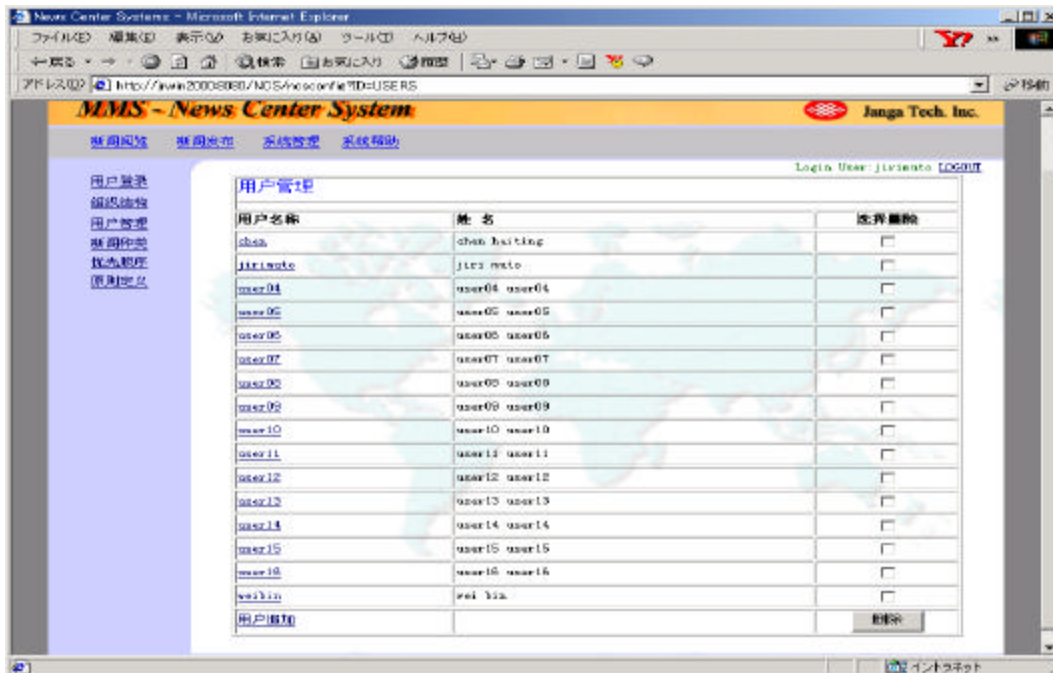
For Add user, click the ADD USER link on last line. For Edit user click the specific user. For delete user check the specific user check box and push the delete button. Following is the user editing form.

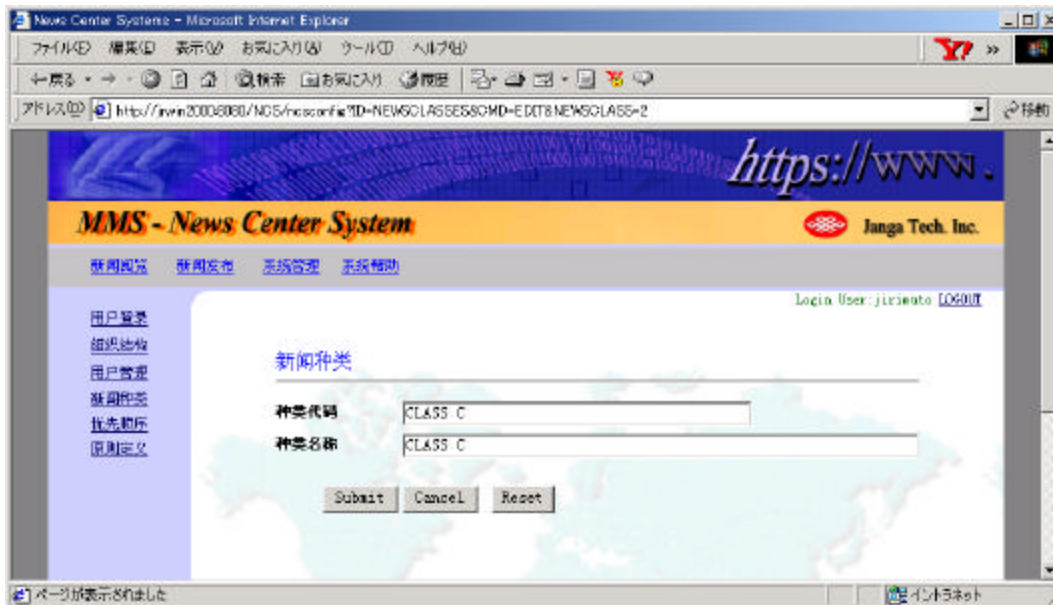*Janga Tech. Inc. – All rights Reserved*

News Classes Configuration

Click the News Classes Configuration menu to get into maintain form.

For Add class, click the ADD CLASS link on last line. For Edit class click the specific class. For delete class check the specific class check box and push the delete button. Bellow is the class adding form and class editing form.
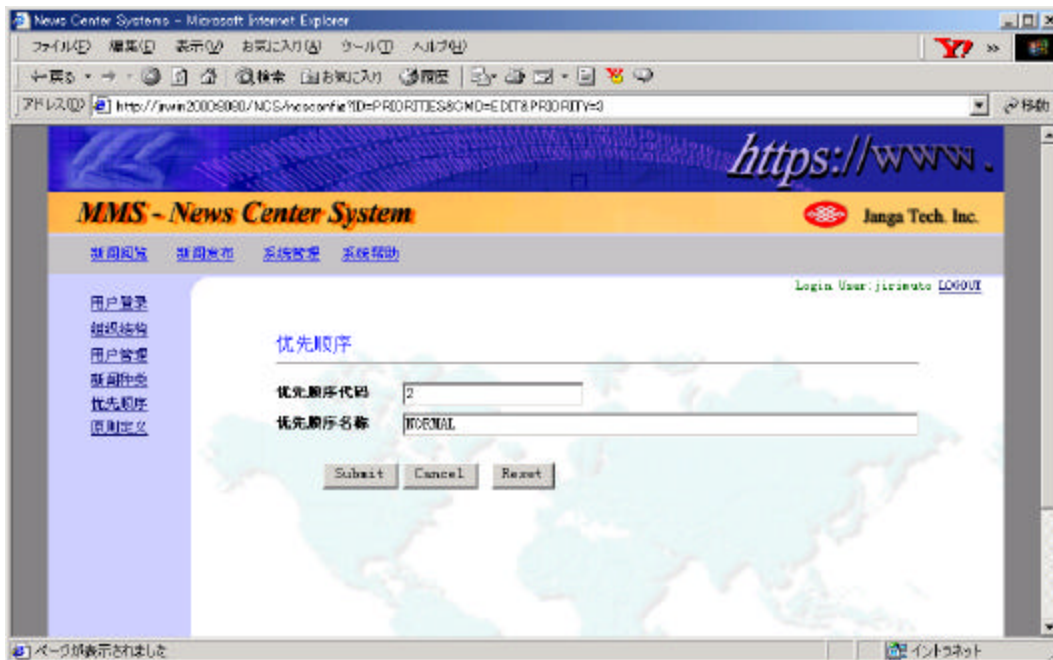
News Priorities Configuration

Click the News Priorities Configuration menu to get into maintain form.

For Add priority, click the ADD PRIORITY link on last line. For Edit priority click the specific priority. For delete priority check the specific priority check box and push the delete button. Following is the priority editing form.

News Principals Configuration

Click the News Principals Configuration menu to get into maintain form.

For Add principal, click the ADD PRIORITY link on last line. For Edit principal click the specific principal. For delete principal check the specific principal check box and push the delete button. Following is the principal editing form.