



**MIDDLE EAST TECHNICAL UNIVERSITY DEPARTMENT OF
COMPUTER ENGINEERING**



**CENG 491
PROJECT PROPOSAL**

NEWSTREAMLINE

PROJECT TITLE:

**A Unified News Exchange Server with NNTP, Mail, Web and
RSS**

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October 9, 2006

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2. Team Information

Our team name is **NEWSTREAMLINE** and group members are listed as below:

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3. Introduction and Project Scope

Surely, the most important advantage of Internet is the communication facility. As the time passes and the technology develops, the communication standards become more evolved and sophisticated. Previously, USENET news server was being used as a communication tool and it is still used commonly.

In this project, we aim to develop a secure message exchange core which is basic threaded. We will implement modules which are accessible by different methods. These methods can be listed as NNTP, e-mail lists, WWW, and RSS. We intend to develop the core as a web services. This core will also be used by the modules. The system allows the subscribed users send an article to a news server, feed that article to RSS clients on web, and show it on a forum page. These procedures will be applied on all channels.

4. Project Topic

We are going to develop a Web Based Exchange News Server which includes file management, text processing and network programming.

4.1. Application Areas

In market place, communication tools have a significant importance. Nearly in all areas, an efficient news server can be implemented. We have divided these areas into 5 groups as below:

- Company Local Area Network
 - ✚ All the departments in a company should have different groups in news server.
 - ✚ Under these groups there has to be subgroups in the name of project topics.
 - ✚ Managers of projects can also manage the groups and mails.
 - ✚ Only the employees working on the project can reach their groups or subgroups.
 - ✚ This system should inform the employees about the meetings, seminars, and educational programs.

- Education Area
 - ✚ All subjects have different groups in news server.
 - ✚ Users can share their related course materials and also reach the other materials.
 - ✚ Users can ask questions and reply them, open new discussion topics.
- Entertainment Area
 - ✚ News group should include topics like, music, sport, cinema, theater etc.
 - ✚ Users can chat instantly and so share their ideas.
 - ✚ Users can be informed about activities.
- Public Area
 - ✚ This area is related with public areas such as university campus, city hall, states, etc.
 - ✚ This area contains all properties of Education and Entertainment areas.
 - ✚ There should be subgroups according to the usage areas, like social, cultural, health, etc.
 - ✚ Users can complain about their concerns related with their living area such as electricity cutoff, etc.

4.2. Features to be developed.

We decided to develop following features according to our first research.

- User authentication.
- E-mail delivery system.
- Search engine on specific working areas.
- Security scanning and warning system.
- Evaluating and outputting statistical data.
- Automatic refreshment of the news group headers.
- Different access methods for security.
- Plug-in support, environment free system.
- Private subgroups on specific topics, privileged users can access.
- File sharing system.

5. Conclusion

As a senior student, we are aware of communication systems' importance, especially e-mailing and news servers. Some of us gained experience about news servers in their summer practice. We have some knowledge about network and file management systems.

Consequently, our interests overlap with this topic. All these reasons make us select this project as our first choice. We are definitely sure that with this project we will gain a lot of knowledge in important computer areas such as network programming, text processing and web application development.