**6.870 Final Project Proposal**

**Webnnel: A channel-based Web navigation system**

Chen-Hsiang Yu and Oshani Seneviratne

**1. Introduction**

* 1. Motivation & Vision

The Web has become an important medium for delivering information, and there are more and more people use the Web to access their daily information, including news, email and entertainment. With the success of traditional PC environment web browsing, home environment also brings in web access enabled appliance, such as television. In our project, we plan to design a TV channel like Web navigation platform, and user can base on speech to control the Web browsing at the home environment.

1.2 Technology

In this project, we will investigate the possible technologies to enable web-based Home system available. It might include web content manipulation, speech recognition, and user interface (UI) design for TV channel like presentation of the Web sites.

1.3 Expected Result

We expect to have a Web-based system that could be used at home environment. To the human computer interaction part, users can use speech to control Web navigation and use speech to switch the Web channels -- Webnnels.

**2. Related Work**

**UI and Content Access**

TV channel like information access has been wide-spread used for multimedia information access, such as Joost[], youtube[], xxx[], and so on.

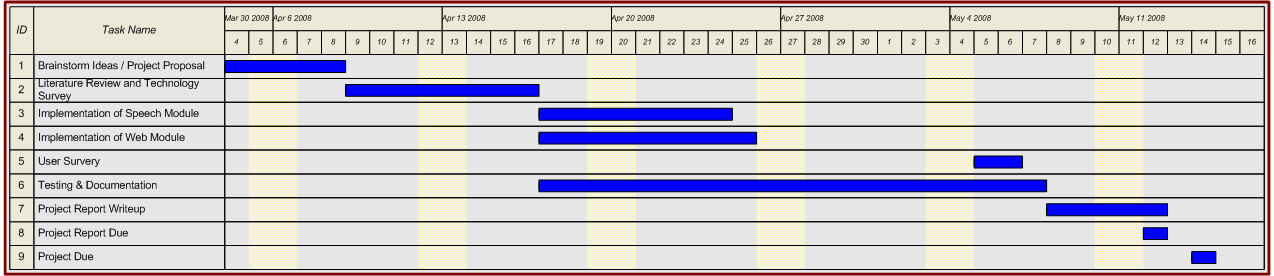
**Speech invoked content access**

**3. Plan of Implementation**  
    Jones(UI, Content Access)

    Oshani(Speech Modules)

**4. Timeline**

The following Gantt chart shows the tentative timeline we have allocated for this project.



**5. Collaboration**

The project team members of this project are Chen-Hsiang Yu and Oshani Seneviratne. We hope to partition the work on this project amongst ourselves and will be collaborating via the online version control system hosted at http://code.google.com/p/webnnel

**6. References**

[1]