Web based video captioning tool

The idea for this project stems from a project that we are implementing in CS492. The project that we are doing for CS492 is a web application to create captions for Flash video files for people with hearing impairments and people who speak English as a second language. In order for people to use this tool, they will have to interact with the application so that when they hear someone speaking in the video, they will write down the caption.

What we propose to do for our 465 project is to add variable playback to the video. This will allow the person watching the video to slow it down so that they can effectively write down what is being said in the video segment. We also want to add a foot pedal feature so that the user does not have to use their hands to slow/speed up the speed of the video. We believe that this will be really helpful for the user and will save them time in making the captions. In addition, we will be creating an easy to use user interface on the Flash application for incorporating the foot pedal.

The audience for this project will be people who have hearing impairments or who do not understand English fluently. The idea is that if we are given captioning options in our televisions and other medias, there is no reason that they should not be available on media that is being streamed through the internet. Motivation for this project lies in the fact that now that the internet has established itself as the main source of communication in the world, we need to make sure that its resources are available to everybody in a way that they can easily use and access them.
The technologies that we will use for this project are Python and Django web application framework. We will also be using ideas of user interface design that we learn throughout this class.