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CS495

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Progress Report 4

For this meeting, we have managed to accomplish some major tasks previously set and change our entire approach in two weeks. Some of the goals accomplished include; login through OpenId on the website, user profiles, and the skeleton of the heart of the website, the Tours page. We also found a solution to video streaming that gives us a manageable delay of 500 milliseconds. And on top of all this we changed from using Django web application to Flask which is a microframework for Python.

While the website does not house user data yet, OpenId allows for basic user features like a profile page and access to the user only Tours page. Under the user's profile is basic information, and a button to edit it. For the Tours pages, which is probably the most important part of the site, we have managed to lay the framework for several applications that will either have to be written or adapted. As far as the framework change, we decided that the database capabilities of Django were more than we needed and because of that, the implementation was more difficult. Instead, we chose to go with another web framework based on Python called Flask. Its lightweight implementation makes it ideal for the limited database functions we need.

The biggest achievement of this progress report has to be the camera implementation. We finally found software that will adequately run the camera and stream to an open port. We used a program called gstreamer found through a forum that does exactly what we needed in order to complete the major parts of the first semester goals.