Goal in Contex: Move mouse using using webcam from head movement

Scope: Team

Level: Summary

Preconditions: Have a Webcam, Installed OpenCV 3.1.0, have a user

Success End Condition: expected curser movement from head movement

Failed End Condition: curser does not move as expected

Primary Actor: User

Trigger: starting the program

Main Success Scenario

1. User places webcam
2. User installs webcam
3. User installs OpenCV 3.1.0
4. User executes program
5. Program reads image from webcam
6. Program looks for head object
7. Program calculates center of head
8. Program changes mouse position based on calculated center
9. Curser moves

Extensions

N/A

Sub-variations

N/A

Related Information

Priority: Top

Performance Target: 30-minute installation, 300 msec delay for calculation

Frequency: 1/day start up, constant calculation

Subordinate Use Cases: N/A

Channel to primary actor: webcam

Secondary actors: N/A

Channels to Secondary actors: N/A

Open Issues

* Installation of OpenCV 3.1.0, user must have this version
* Proper set up of the webcam
* Owning a webcam

Schedule

Due Date: version 1.0