

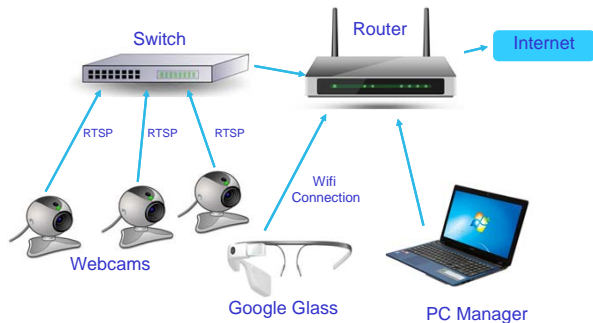
Introduction



Peek around corners with google glass.

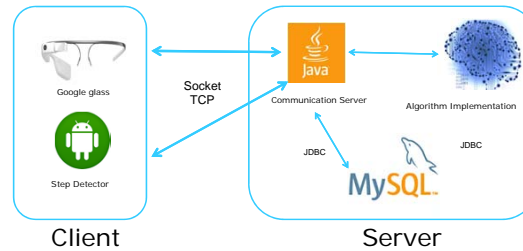
- ❖ Enable user to see blind area of his movement direction -- display real-time video stream on google glass screen.
- ❖ According to user's location and behavior automatically select and activate different webcam.

Network



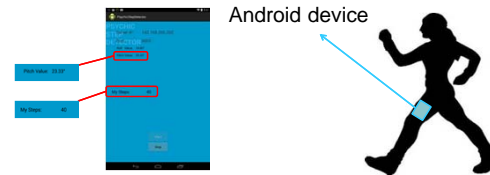
The Real Time Streaming Protocol (RTSP) is a network control protocol designed for systems to control streaming media server and used for establishing and controlling media sessions between end points.

System Design



Position Tracking

➤ Step Counter Module



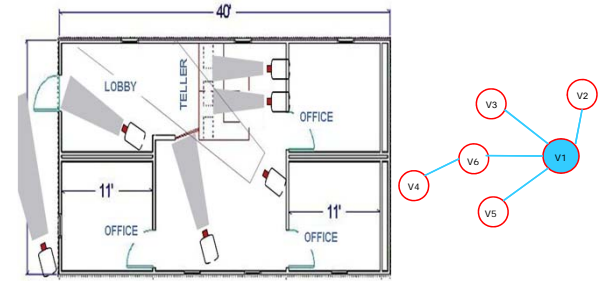
- Apply orientation sensor in Android device to detect step (orientation change when leg lift).

➤ Direction Module



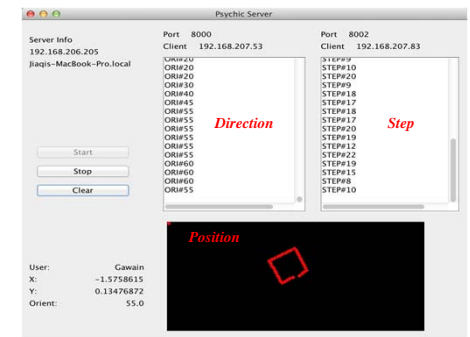
- Apply accelerometer sensor combined with magnetic field sensor to determine user's direction.
- Algorithm Reference:
Google build-in app --- Compass

Webcam Selection

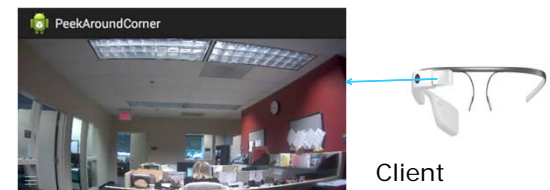


Apply graph BFS algorithm to search all the adjunct vertices, then based on the orientation value, activate the corresponding webcam.

Result



Server



Client