**Team**: Nice Dreamers

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**PROPOSAL** 

PROJECT: ELDERLY'S PAL

**SUMMARY** 

Nowadays, it has become increasingly challenging for the elderly to use personal

computers. Aside from the challenges that come from the waves of new developments, physical

disability is another key problem that often prevents the elderly from connecting with their family

and friends. Realizing the ability of technology to help them have a more qualitative living, our

group plans to develop an application that can make the use of personal computer easier and

simpler for the elderly (or anyone with limited physical functioning).

For this project, our group plans to develop an application that can detect and recognize

simple hand and arm gestures. These basic gestures, after being processed and translated by our

application, allow the user to contact and connect with their friends and family through their

computer without having to go through the traditional and complicated steps. This application will

run on *Microsoft Windows* operating system and the motion sensing input device will be Kinect.

On the market, there are a few applications that have a similar idea of utilizing motions as

commands. However, our application specifically targets people with physical disability and

emphasizes on the promotion of better social life. For this reason, we want to ensure the simplicity of our gesture command and focus primarily on the utility that connects people with their friends and family.

Another interesting and practical feature of this application is that it can record the activities of the user and analyze his or her physical condition. These recordings can then be saved to Microsoft's SkyDrive and accessed from anywhere with a Windows device (phone, computer, etc...). With this feature, friends and family members can monitor and keep track of their closed one's health easier and more efficiently. This is what makes this application unique. This medical technology, which records physiological data and allows for easy health monitoring, can potentially transform medical care and make this application a must-have for the elderly and people with physical disability.