

**Class Participation Assignment 3**  
**Course: SYSC5409W WINTER 2014**  
**Professor: Ali Arya**

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**CP-3 Use the table of Tasks/People/Technology and suggest a new product or system idea by choosing on item from each group. Submit a short(less than a page) proposal.**

**Answer: Task-Programming    People-University Students, Men    Technology-Biometrics**

**1. What is Biometrics?**

Biometrics is a branch of computer science that uses the concept of identification and access control of humans. It can be used as fingerprint scanners, DNA, Face and Iris recognition etc.

**2. Why the use of biometrics is becoming necessary day by day?**

When the thieves or criminals tries to access secure properties and if they cannot succeed in their work, then they try to attack the owner for gaining access. So if the item is equipped with proper biometric programmable software, the owner could be protected and his property too. As criminals use their destructive goals to rob money from ATM, biometrics can play an important role in eliminating these negatives and can prove to be a fruitful invention.

**3. My Proposal**

University students can develop and execute various biometrics programming interfaces or software's for security purposes. Biometrics can be implemented in various programming languages and various database software's. The main use of biometric programming is web authentication. University students can make various applications that can securely save the information of the end user and can be compared thereafter, especially that comes under surveillance management systems. The main thing in that is proper maintenance of the system, monitoring and updating the required information. Highly Official Forensic expert can make biometric programmable software for criminal investigations. For example, if a particular person leaves any country then they have to submit their fingerprints and the concerned official also takes the photograph. So that if the same person re-enters the country, their biometric information is displayed in their systems and then it makes easy for the officials to compare the database of possible matches to verify their authenticity. Another good example for biometrics can be like speaker authentication or recognition. A specific method of recognizing the voice of the people should be implemented so that it can give the details of the person. Like if a telephone customer is on the line there should be some software so that we can verify the caller with his/her voice within specific time of conversation. So in this way biometrics can be used so that people doing destructive activities can be easily caught due to large database of the people available already in the computer systems.