**BIOMETRICS IMPLEMENTATION ON IoT**

**GUIDE STUDENTS NAME**

Dr. S. BRINDHA S. BHARATH KUMAR (15DC03)

J. DEEPIKA (15DC04)

V. NAVEEN KUMAR (15DC15)

S. VISHNU SHREE (15DC25)

A reliable identity management system is needed in order to conflict the rampant growth in identity theft, and to meet the increased security requirements in a variety of applications like forensics, government, transportation, health-care, finances, security, public justice and safety, and education Information security is concerned with the guarantee of confidentiality, integrity and availability of information in all forms. Developments in the field of Information Technology also make Information Security a devoted part of it. In order to deal with security, Authentication plays an imperative role.

In this project, Biometrics is used for authentication. This project also describes how biometrics can leverage cloud’s boundless computational resources and striking properties of flexibility, scalability, and cost reduction in order to reduce the cost of the biometrics system requirements of different computational resources, and to enhance the performance of biometrics systems processes. The application of Raspberry Pi and cloud computing has given a new direction of research into the field of Internet-of-Things (IoT). The Internet of things allows objects to be sensed and controlled remotely across existing network infrastructure, creating opportunities for more direct integration between the physical world and computer-based systems, and causing in improved proficiency, precision and economic assistance.

The hardware requirements for the remote enrolment node are listed below: In this project, Raspberry Pi 2 Model B is used which costs US $35. It has 4 USB ports, a HDMI port for connection with the display, micro SD card slot for booting and data storage as RPi doesn’t have on-board storage. Also it has 10/100 Mbit/s Ethernet port for internet connection.

