



Vidya Pratishthan's

Kamalnayan Bajaj Institute of Engineering & Technology, Baramati

Department of Computer Engineering

Academic Year: 2020-21

Project Synopsis

Group No. – 3

Name of Students:

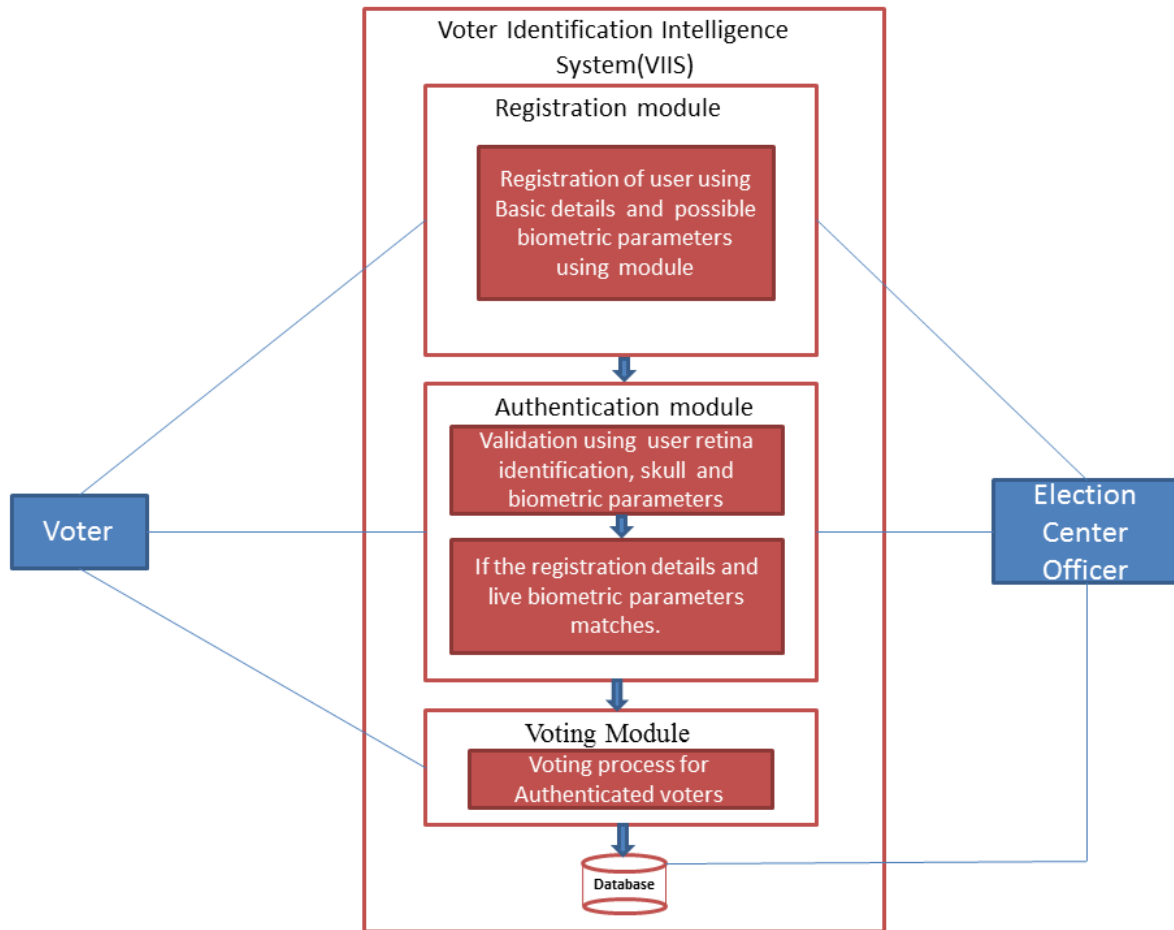
1. Akash Anandrao Devkule (Roll no-2041015)
2. Omkar Nitin Khot (Roll no -2041043)
3. Shubham Jagannath Bhosale (Roll no -2041009)
4. Shubankar Shripad Shinde (Roll no -2041064)

Project Domain: AI and Blockchain

1. Title of Project: Voter Identification Intelligence System (VIIS)
Sponsored by Evisipro Pvt Ltd, Pune.

2. Introduction of Project:

Nowadays, voting in the election held in the world, is mainly executed by physical appearance of a voters. So especially, in India Electronic Voting Machines (EVM) are used. But, there are so many controversies being seen already in our country, India regarding EVM and its procedure. So before making voting for these elections, we propose a system that is Voter Identification Intelligence System (VIIS). We give the better solution for making the conformation of citizen so that voter can vote confidentially in the e-booth by taking all concerns for identification of citizen. The proposed work is combination of retina identification, skull and all possible biometrics parameters to make signature code which gives in tern identification of Aadhar ID number or any identification documents. The Voter Identification Intelligence System (VIIS) using (AI and Blockchain Technology) is ensured to make the current voting process take place in an appropriate, accurate and highly secured way.



3. Objectives:

- We aim to provide decentralized system to get fair election result.
- The proposed VIIS is secured so it can be used to identify right voter.
- The proposed VIIS model acts as a step towards digitalization and thereby reduces the effort put by election staff members and voters.

4. Methodology

We are going to use following methods and algorithms for our project -

- The **minutiae base algorithm**
- The **Canny Edge Detection algorithm**
- The **CNN**

5. Development Tools:

- Python 3.7
- HTML-CSS
- MYSQL DBMS
- XAMP/WAMP SERVER
- VS Code / NetBeans IDE
- Finger Print Scanner
- Web Cam

5. References:

- S. N. Kavitha , K. Shahila , S.C. Prasanna Kumar, “**Secured Voting System with Finger Print, Face and Iris Verification,**” 2018 Second International Conference on Computing Methodologies and Communication (ICCMC) , IEEE, 2018.
- T.M.Roopak , R Sumathi, “**Electronic Voting based on Virtual ID of Aadhar using Blockchain Technology,**” 2020 2nd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA), IEEE, 2020.
- K Teja , MB Shravani , Chintarlapallireddy Yaswanth Simha , Manjunath R Kounte, “**Secure Electronic Voting System using Blockchain Technology,**” 2019 _3rd International Conference on Trends in Electronics and Informatics (ICOEI),IEEE, 2019.
- Arucha Rungchokanun, Kittinuth Srisutheenon , Vutipong Areekul, “**Minutiae Selection using Reference Point for Fingerprint Data Interoperability and Identification,**” 17th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), IEEE, 2020.

(Dr. D. B. Hanchate)

Project Guide

(Mrs. S. S. Nandgaonkar)

Project Coordinator

(Dr. S. K. Shinde)

HoD

(Dr. R. S. Bichkar)

Principal