P.S.N.A. COLLEGE OF ENGINEERING & TECHNOLOGY, DINDIGUL

Department of Computer Science and Engineering

Project Zeroth Review – Title Confirmation

Project Title   : Online Secure Payment System using
                                                       Face Recognition

Section   : CSE-D

Domain   : Machine Learning

Batch No   : 5

Team Members   : S. Santhosh   (921317104187)

                                                       S. Santhosh   (921317104186)

                                                       Santosh Luitel   (921317104191)

                                                       S. Sarath Kumar (921317104192)

Internal Guide Name   : Dr. R. Karthikeyan

ABSTRACT:

Problem statement:

The purpose of our project is to develop a web based application which is used for online payment in a more secure way. Instead of OTP generation the online payment is enabled by face recognition of the user.

Problem description:

Online Secure Payment using Face Recognition is a web based application which enables a more secure online money transaction. The advancements in technology have led to a surge in online transactions via online shopping, internet banking, payment gateways, etc. In the current world of advanced technology, it is easy for hackers to get personal details of users because of which some people are hesitant to use online transactions. This makes security an important factor at the time of making digital payments. For this reason, to make transaction more secure we use face recognition instead of OTP or MPIN. Facial recognition has improved dramatically in recent years and the best face identification algorithm has an error of just 0.08% making it more reliable and secure than OTP.

Tools used:

- Python
- Django

Expected Outcome:

The outcome of this project is a web application where a user can make secure payment to the seller using face recognition. A new user has to register their face to use this application. If the face is enrolled then the payment details can be entered and submitted after which face verification is done and if successful the transaction gets completed.

Supervisor   Project Coordinator   HOD-CSE