Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID37085
Project Name	A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	• In normal method the time taken for the process will be very high • The handwritten digit recognition is the capability of computer applications to recognize the human written digits • In Handwritten number recognition, we face numerous challenges because of different styles of jotting of different peoples as it.
2.	Idea / Solution description	• There are a numbers of ways and algorithms to recognize hand written digits, including deep learning/CNN, SVM, Gaussian Navi Bayes, KNN, Decision tress, Random forests etc., • This idea will able to recognize the hand written and printed image to words easily • It is the capability of the computer to identity and understand handwritten digits or character automatically.
3.	Novelty / Uniqueness	• One of the most arduous and captivating domains under image processing in handwritten characters recognition. • The main objectives of this work is to ensure effective and reliable approach for recognition of handwritten digits and make banking operation easier
4.	Social Impact / Customer Satisfaction	• Recently handwritten digit recognition becomes vital scope and it is appealing many researcher because of its using in variety of machine learning and computer vision applications • The system not only produces a classification of the digit but also a rich description of the instantiation parameters which can yield information such as a writing style.
5.	Business Model (Revenue Model)	• It can be developed with minimum cost and provide high effective process at less time

6.	Scalability of the Solution	• This system can be developed further using advanced sensor and can be upgraded wisely and can be stored in large scale sensor medium . • It can be further used to recognize Arabic digits are more challenging than English pattern.