	Project Design Phase-I
	Problem – Solution Fit Template
Date	19 September 2022
Team ID	PNT2022TMID50532
Project Name	Project - xxx
Maximum Marks	2 Marks

## Project Title: A Novel Method For Hand Written Digit Recognition

Team ID: PNT2022TMIDxxxxxx

1. CUSTOMER SEGMENT(\$)	6. CUSTOMER CONSTRAINTS	5. AVAILABLE SOLUTIONS
A officer in a post office receiving letters and couriers in a written format.	It is a difficult because most person's handwriting will not similar, scanner or camera work perfect in perfect light condition, It took to much time to process	Various people's handwriting should be used for train the AI. That should improve the accuracy. Traning the model in a proper way to get the better outcome.
2. JOBS-TO-BE-DONE / PROBLEMS  He/She Wants To Store The Pincode Or  Mobile Number Etc Into A Storage  Space . So A Hand Written Digit  Recognition System Is Needed To  Solve Those Problems.	9. PROBLEM ROOT CAUSE  A small recognition error  may cause the big	7. BEHAVIOUR
	difference in the end result.	Before Processing The Image Application Should
	difference in the end result.	Verify The Photo Was Taken In Correct Angle And
		Correct Lighting. User Should Completely Aware Of
		Instruction Of Application.



To do the work in a efficient manner. So that the officer getting satisfied.

4. EMOTIONS: BEFORE / AFTER



BEFORE: They eagerly wants to finish is work quickly and easily .

AFTER: If its working fine they feels better.

## **10. YOUR SOLUTION**



an input and compare the preprocessed digits with the

trained datasets and give the output of digits as a text well as pen-up/pen format.

## 8. CHANNELS of BEHAVIOUR



8.1 ONLINE

SL

Online handwriting recognition involves the automatic

conversion of text as it is written on a special digitizer

where a sensor picks up the pen-tip movements as well as pen-up/pen-down switching.

8.2 OFFLINE

K-NN combined with preprocessing methods can

achieve great performance apart from Neural Network when used as a classification algorithm

in offline handwritten digit recognition.