Project Title: A novel method for handwriting digit recognition system　　　**Project Design Phase-I - Solution Fit Template**　　　**Team ID:** PNT2022TMID04081

Define CS, fit into CC

1. CUSTOMER SEGMENT(S)　　CS

Who is your customer?

People who work with large amounts of user data

6. CUSTOMER CONSTRAINTS　　CC

What constraints prevent your customers from taking action or limit their choices of solutions?

The usage of computers and softwares makes it difficult to be used by people who are not used to work with technology

5. AVAILABLE SOLUTIONS　　AS

Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have?

There are not much of solutions for the handwriting recognition . The only solution is to use as many people as possible if finishing the task in time is a priority

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS　　J&P

To develop an application that can convert handwritten text to digital form

Should be able to predict huge amount of data

9. PROBLEM ROOT CAUSE　　RC

The absence of standard formats for writing things

Every person having their very own style of writing things

Having multiple languages and sub dialects

7. BEHAVIOUR　　BE

The customer just spends extra time to understand every type of handwriting to correctly get the data

Incase of data in large numbers,the customer has to seek for others' help.

Focus on J&P, tap into BE, understand RC

3. TRIGGERS

TR

What triggers customers to act?

People having bad handwritings will scribble on the papers and the pain of seeing those handwritings over various papers causes customers to act and scream in pain
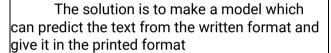
4. EMOTIONS: BEFORE / AFTER

EM

How do customers feel when they face a problem or a job and afterwards?

The customer will have lot of stress as it will not be easy to understand the writings. In the end after fetching all the data and finding it to be accurate, the customer feels a sense of satisfaction and a huge relief.

10. YOUR SOLUTION

SL

The solution is to make a model which can predict the text from the written format and give it in the printed format

Giving the model in an application format for better use of the model by the customers. Updating the application regularly for bug fixes and stability improvements.

8. CHANNELS of BEHAVIOUR

CH

8.1 ONLINE

Unlocks the full potential of the system. The customer should be able to check the internet for the detected form, convert into languages other than the detected language .Also provide the phonetics ,grammatical errors ,speech translation of the detected text.

8.2 OFFLINE

Includes the basic features. Detection of text in its written language and format. Able to store the captured data record in the system in different formats as per the user's needs.