**Project Title: A NOVEL METHOD FOR HANDWRITTING DIGIT RECOGNITION SYSTEM Project Design Phase-I** - **Solution Fit Template Team ID:** PNT2022TMID50751

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

**Explore AS, differentiate**

**Deﬁne CS, ﬁt into CC**

Traditional systems of handwriting recognition have relied on handcrafted feature and a large amount of prior knowledge.

**AS**

**5. AVAILABLE SOLUTIONS**

Which solutions are available to the customers when they face the problem

Unclear image will not give accurate results.

**CC**

**6. CUSTOMER CONSTRAINTS**

**CS**

1. **CUSTOMER SEGMENT(S)**

**Explore AS, differentiate**

In this project the customers are users who want to use this system. **CC**

sss

i.e. directly related: ﬁnd the right solar panel installer, calculate usage and beneﬁts; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)

**BE**

**7. BEHAVIOUR**

What does your customer do to address the problem and get the job done?

**RC**

**9. PROBLEM ROOT CAUSE**

What is the real reason that this problem exists? What is the back story behind the need to do this job?

i.e. customers have to do it because of the change in regulations.

**J&P**

**2. JOBS-TO-BE-DONE / PROBLEMS**

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

Handwritten digits can be difficult to understand and interpret at times. It may cause errors when dealing with rough handwriting.

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

The issue is that there’s a wide range of handwriting good and bad. Program to provide enough example of how every character might look.

Customers must try with clear image and neat handwriting to get accuracy in digit.

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| **Identify strong TR & EM** | **3. TRIGGERS TR**   * Depends on the situation like most old documents or books which may have been tattered or the writhing may be clear recognizable. | **10. YOUR SOLUTION SL**  A solution to this problem is the handwritten digit recognition system, which uses a picture of a digit and recognizes the digit present in the image. Convolutional Nural Network after training and testing, the accuracy rate reached. Very high accuracy rate. | 1. **CHANNELS of BEHAVIOUR CH**     1. ONLINE   Extract online channels from behaviour block   * 1. OFFLINE   Extract offline channel from different handwriting styles. |  |
| **4. EMOTIONS: BEFORE / AFTER EM**  Feels frustrated and when numbers are not entered. |