1. CUSTOMER SEGMENT(S)

- People at industry side for recognizing various digits of handwriting.
- People Working in bank, post offices etc.

6. CUSTOMER CONSTRAINTS



Project Design Phase-I - Solution Fit

- budget
- no cash
- network connection
- available devices.

5. AVAILABLE SOLUTIONS

- In past they get trouble in finding handwritten digits
- Using this system, they can resolve this type of AS problems
- Pros of this system is quick recognition and
- Explore AS, differentiate
- Accurate prediction
- Cons are network connection is mandatory for using this system
- For using this system Knowledge about the system is required

differentiate

Explore

AS,

J&P

2. JOBS-TO-BE-DONE / PROBLEMS

- There are different types of handwriting are in world.
- Each and every handwriting has its own characteristics and uniqueness Its difficult to understand the different people's handwriting digit.

9. PROBLEM ROOT CAUSE



CC

- Not everyone can understand everyone's
- handwriting
 The handwriting is differed from person to
- person.
 So, it is difficult to recognize the digits To solve this problem this system has developed

7. BEHAVIOUR



To address the problem, they can take a snap of the handwritten digit and upload it in the software.

3. TRIGGERS



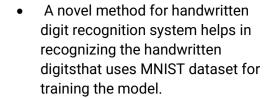
- By word of mouth.
- Good user experience.

4. EMOTIONS: BEFORE / AFTER



- It is a quite irritating and frustrating while manually convert the handwritten digits
- By using our system, user can save the time and reduce the error occur on recognition.

10. YOUR SOLUTION



- The model gets the image of the handwritten digits and recognizes the handwritten digits.
- CNN algorithm is used over the MNIST dataset to recognize the handwritten digits.

8. CHANNELS of BEHAVIOUR



8.1 **ONLINE**

SL

In online they can upload the handwritten picture and yield output.

8.2 OFFLINE

In offline they can ask their neighbors to scribble the digits to find them