# 1. CUSTOMER SEGMENT(S)

- CS
- Used in Banking and Post Office
- Register Office

Define

fit into

- Passport and visa Office
- © Government Document Verification Office
- Aadhar Sector
- Medical Department
- Old Age People

## 6. CUSTOMER CONSTRAINTS



- Accuracy
- Ease to access
- Imperfect findings

## 5. AVAILABLE SOLUTIONS



- 1. In past they get trouble in finding handwritten digits
- 2. Using this system, they can resolve this type of problems
- 3. Pros of this system is quick recognition and Accurate prediction
- 4. Cons are using this system Knowledge about the system is required

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

J&P

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

RC

CC

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

### 7. BEHAVIOUR



- Designing the best software that more quickly and accurately identifies the handwritten digits.
- To address the problem, they can take scan copy of the handwritten digit and upload it in the software

# 3. TRIGGERS

Identify

strong

됬

TR

When provide Accurate output Anyone can use it. Good user experience

## 4. EMOTIONS: BEFORE / AFTER



- It is a guite 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



- A novel method for handwritten digit recognition system helps in recognizing the handwritten digits that uses MNIST dataset for training the model.
- 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



### ONLINE

In online they can upload the handwritten picture and yield output

### **OFFLINE**

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

