Focus on J&P, tap into BE,

understand RC

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strong

Define

CS

fit into

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## 1. CUSTOMER SEGMENT(S)

- CS
- Used in Banking and Post Office
- \* Register Office
- Passport and visa Office
- Government Document Verification Office
- Aadhar Sector
- ✓ Medical Department
- Old Age People

#### 6. CUSTOMER CONSTRAINTS



- ∔ Time
- 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

# Anyone can use it.

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.

recognition system neips 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.

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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

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