**Project Title: A Novel Method For Handwritten Digit Recognition System Project Design Phase-I** - **Solution Fit Team ID: PNT2022TMID17703**

Time Accuracy



v◆: Used in Banking and Post Office

:v◆ Register Office v:◆ Passport and visa Office v◆: Government Document Verification Office v:◆ Aadhar Sector

:◆v Medical Department

◆:v◆ Old Age People

Ease to access Imperfect findings

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

What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

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

i.e. lost, insecure > confident, in control - use it in your communication strategy & design.

If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.

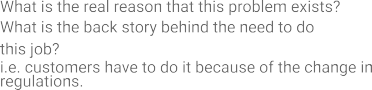
If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

**8.1 ONLINE**

What kind of actions do customers take online? Extract online channels from #7

**8.2 OFFLINE**

What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.



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

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

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.

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| --- | --- | --- | --- | --- |
|  | **3. TRIGGERS TR**  When provide Accurate output Anyone can use it.  Good user experience | **10. YOUR SOLUTION SL**  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 CH**  **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 |  |
| **4. EMOTIONS: BEFORE / AFTER EM**  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. |