What do they THINK AND FEEL?
what really counts
major preoccupations
worries & aspirations

- Not only detects scanned images for handwritten digits but also allows writing digits on the screen with the help of an integrated GUI for recognition
- Approching this project using three layered neural network
- Handwritten digit recognition using MNIST dataset is a major project made with the help of Neural Network.
- Detects the scanned images of handwritten digits.

What do they HEAR?
what friends say
what boss say
what influencers say

- Processing bank check rates
- Posting zip codes
- Histograms of various digits, it is possible to differntiate between them
- Online digit recognition on PC tablets
- Users should hear about this application especially in banking sectors

What do they SEE?
environment
friends
what the market offers

- A mobile based application
- A better UI which satisfies the clients
- Make the character matching method realistic to identify handwritten digits provided in the MINIST dataset for handwritten digital images
- Easy to identify the hand written digits
- Flexible to access anywhere

What do they SAY AND DO?
attitude in public
appearance
behavior towards others

- User friendlly application
- Can be accessed in both online and offline

PAIN
fears
frustrations
obstacles

- cursive handwriting makes challenging
- Line of text may not be in straight line
- Need to develop an efficient algorthm that can recognise handwritten digits better
- May or may not found 100% accuracy
- Not everyone's handwriting is the same, everyone writes differently.

GAIN
"wants" / needs
measures of success
obstacles

- Portable
- Errors can be reduced
- This can be used in banking sector where it can be used to maintain the security pn numbers
- Faster than manual
- used by countless organization, schools, banks and even for family activities.
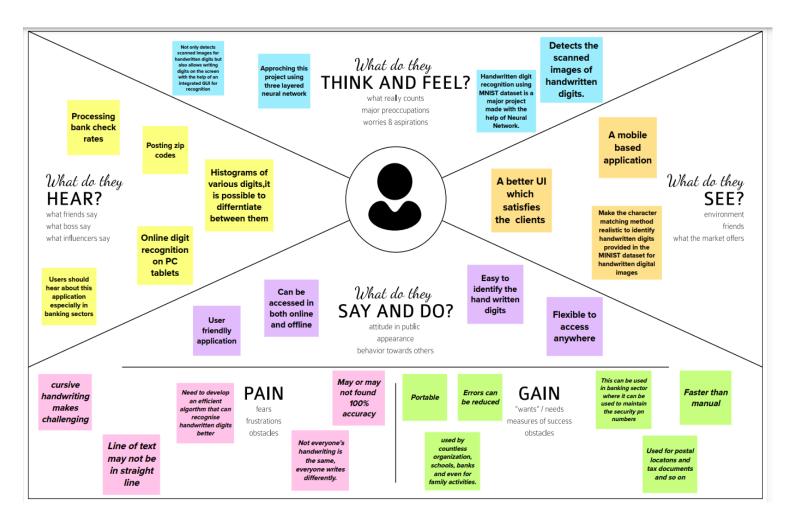- Used for postal locatons and tax documents and so on

Reference: https://www.mural.co/templates/empathy-map-canvas