

Project Design Phase-I - Solution Fit

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) Who is your customer? CS The Customers who deal with handwritten digits like Banking sectors, schools, colleges, railways, firms, etc.	6. CUSTOMER CONSTRAINTS What constraints prevent your customers from taking action or limit their choices of solutions? CC They believe that the alternatives will result in errors and faults and will be inconvenient.	5. AVAILABLE SOLUTIONS Which solutions are available to the customers when they face the problem? AS There are no widely used software's to detect handwriting; instead, they check with other people to affirm what number it is.	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. J&P Handwritten digits can be difficult to understand and interpret at times. It may cause errors when dealing with rough handwriting.	9. PROBLEM ROOT CAUSE What is the real reason that this problem exists? What is the back story behind the need to do this job? RC We face numerous challenges in handwritten number recognition. because of different people's jotting styles and the lack of Optic character recognition This investigation offers an in-depth comparison of various machine literacy and deep literacy	7. BEHAVIOUR What does your customer do to address the problem and get the job done? BE Finding the best software for detecting accurate digits in a more efficient manner	
Identify strong TR & EM	3. TRIGGERS What triggers customers to act? TR To wait for manual confirmation of digits.	10. YOUR SOLUTION 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. SL A solution to this problem is the Handwritten digit recognition system, which uses a picture of a digit and recognizes the digit present in the image. Convolutional Neural Network model built with PyTorch and applied to the MNIST dataset to recognizes handwritten digits.	8. CHANNELS OF BEHAVIOUR 8.1 ONLINE What kind of actions do customers take online? Extract online channels from #7 CH 8.2 OFFLINE What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development Using software that is available on the internet. Obtaining assistance from those nearby in order to recognize the digits written by their customers.	Identify strong TR & EM
	4. EMOTIONS: BEFORE / AFTER How do customers feel when they face a problem or a job and afterwards? FM Feels frustrated and sad when numbers are not entered.			