

Project Design Phase-I Problem – Solution Fit Template

Date	31 Oct 2022
Team ID	PNT2022TMID31932
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	2 Marks

Template:

Problem-Solution fit canvas 2.0

Purpose / Vision

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) <small>Who is your customer?</small> In this Project the customers are Users who want to use this system.	6. CUSTOMER <small>What constraints prevent your customers from taking action or limit their choices?</small> <small>☑ solutions? ☑ spending power, budget, no cash, network connection, available devices.</small> <ul style="list-style-type: none"> Lack of Datasets Limited Resources Network Connectivity 	5. AVAILABLE SOLUTIONS <small>Which solutions are available to the customers when they face the problem?</small> <small>☑ need to get the job done? What have they tried in the past? What pros & cons do those solutions have? ☑ pen and paper is an alternative to digital.</small> <ul style="list-style-type: none"> Use High Speed Processor Rollout on Open source Platform. Collect Different style of Datasets 	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS <small>Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.</small> <ul style="list-style-type: none"> To Train and Test Datasets To Enhance the Image Pre-Processing. 	9. PROBLEM ROOT CAUSE <small>What is the real reason that this problem exists? What is the back story behind the need to do this job?</small> <small>☑ customers have to do it because of the change in regulations.</small> <ul style="list-style-type: none"> There are Different Style of Handwritten Datasets. Does not Support Optical Character Recognition 	7. BEHAVIOUR <small>What does your customer do to address the problem and get the job done?</small> <small>☑ directly school; find the right solar panel installer, calculate usage and benefits, indirectly associated: customers spend less time on scheduling work (i.e. GoogleMaps)</small> <ul style="list-style-type: none"> Must Keep Up date with the Dataset with the Latest data. Must train the data frequently 	
Focus on J&P, tap into BE, understand RC	3. TRIGGERS <small>What triggers the problem?</small> <ul style="list-style-type: none"> Depends On the situation like most Old Documents or books which may have been tattered or the writing may not be clearly recognizable. Number Plate Recognition 	10. YOUR SOLUTION <small>What is the solution you are offering?</small> A system which helps to recognize the handwritten digits is very useful as the numbers are very crucial in day to day life. As this system will help in numerous operations like Number plate recognition, Postal code Correspondence sorting, etc.	8. CHANNELS of BEHAVIOUR <small>How will you reach your customers?</small> ONLINE Collect the latest datasets from different	Focus on J&P, tap into BE, understand RC
	4. EMOTIONS: BEFORE / AFTER <small>How do your customers feel about the problem?</small> Before: Dissatisfaction, Frustration, stressed After: Satisfaction, Calmness		OFFLINE Build a model	
Identify strong IR & EM				Extract online & offline CH of BE