

## Project Design Phase-I Problem – Solution Fit Template

Date	31 Oct 2022
Team ID	PNT2022TMID41730
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>	CS	6. CUSTOMER <small>What constraints prevent your customers from taking action or limit their choices? ☞ solutions? ☞ spending, power, budget, no cash, network connection, available devices.</small>	CC	5. AVAILABLE SOLUTIONS <small>Which solutions are available to the customers when they face the problem? ☞ need to get the job done? What have they tried in the past? What products cause these solutions have? ☞ pen and paper is an alternative to digital <del>xxxxxxxx</del>.</small>	AS	Explore AS, differentiate
	<p>In this Project the customers are Users who want to use this system.</p>		<ul style="list-style-type: none"> <li>Lack of Datasets</li> <li>Limited Resources</li> <li>Network Connectivity</li> </ul>		<ul style="list-style-type: none"> <li>Use High Speed Processor</li> <li>Rollout on Open source Platform.</li> <li>Collect Different style of Datasets</li> </ul>		
Focus on J&P, cap into BE, understand RC	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>	J&P	9. PROBLEMROOT CAUSE <small>What is the real reason that this problem exists? What is the back story behind the need to do this job? ☞ customers have to do it because of the change in regulations.</small>	RC	7. BEHAVIOUR <small>What does your customer do to address the problem and get the job done? ☞ directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on solarizing work (i.e. procrastinate)</small>	BE	Focus on J&P, cap into BE, understand RC
	<ul style="list-style-type: none"> <li>To Train and Test Datasets</li> <li>To Enhance the Image Pre-Processing.</li> </ul>		<ul style="list-style-type: none"> <li>There are Different Style of Handwritten Datasets.</li> <li>Does not Support Optical Character Recognition</li> </ul>		<ul style="list-style-type: none"> <li>Must Keep Up date with the Dataset with the Latest data.</li> <li>Must train the data frequently</li> </ul>		
Identify strong TR & EM	3. TRIGGERS <small>Depends On the situation like most Old Documents or books which may have been tattered or the writing may not be clearly recognizable.</small>	TR	10. YOUR SOLUTION <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.</small>	SL	8. CHANNELS of BEHAVIOUR <small>ONLINE</small>	CH	Extract online & offline CH or BE
	<p>Before: Dissatisfaction, Frustration, stressed After: Satisfaction, Calmness</p>				<p>Collect the latest datasets from different</p>		
4. EMOTIONS: BEFORE / AFTER <small>Before: Dissatisfaction, Frustration, stressed After: Satisfaction, Calmness</small>		EM			OFFLINE		
					Build a model		