

Project Design Phase-I

Problem – Solution Fit Template

Date	30 September 2022
Team ID	PNT2022TMID48349
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	2 Marks

Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

- ☐ Solve complex problems in a way that fits the state of your customers.
- ☐ Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior.
- ☐ Sharpen your communication and marketing strategy with the right triggers and messaging.
- ☐ Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems.
- ☐ **Understand the existing situation in order to improve it for your target group.**

Define cs, fit into cc	1. CUSTOMER SEGMENT(S) Postal officers, Bank cashiers, Education staffs and various government departments. CS	6. CUSTOMER CONSTRAINTS They will save the time taken for deliver the post. They will avoid the problems arise if the bank cashiers recognize the digit wrongly. CC	5. AVAILABLE SOLUTIONS Handwritten digit recognition, Handwritten recognizer, Text scanner(OCR), Digit recognizer. AS	Explore AS, differentiate
Focus on J&P, tap into BE, understand RC	2. JOBS-TO-BE-DONE/PROBLEMS If the postal officers recognize the digits wrongly they will face the problems like time taken for deliver the post and cost to transportation. So, we implement the "Handwritten digit recognition system" it recognize the sequence of digits in the post cover. J&P	9. PROBLEM ROOT CAUSE The bank cashiers will face the problem that the digits in the challan is incorrect. The postman will face the problem while he is recognize the digits in the pin code wrongly. RC	7. BEHAVIOUR They need to sign in or sign up to our application. They will use the camera to capture the image with digits to recognize the digits. BE	Focus on J&P, tap into BE, understand RC
Identify strong TR & EM	3. TRIGGERS We can use the social media for advertising our application. They will see the application that is run by the postal officers. TR	10. OUR SOLUTION We can introduce the project that is "A Novel Method for Handwritten Digit Recognition System" which recognize the sequence of digits and give the accurate result of the handwritten digits. SL	8. CHANNELS OF BEHAVIOUR Online: They will have the option like scan or capture the image with digits to recognize . It will clear or save the image. CH	Extract online & offline CH of BE
	4. EMOTIONS: BEFORE/AFTER Before: Time taken to deliver the post because the wrong recognition of pin code, Fear of recognize the digits in challan. After: Time taken is less for deliver the post, No fear about the recognize the digits in challan. EM		Offline: It will show the image that is save while recognize the digits. Procedure to use the application in proper way. Uses of the application.	