

Project Design Phase-I Problem Solution Fit

Date	28 October 2022
Team ID	PNT2022TMID02197
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	2 Marks

Problem Solution fit:

Define CS, fit into CC	<p>1. CUSTOMER SEGMENT(S) CS</p> <p>Bank employees, Postal mail sorters</p>	<p>6. CUSTOMER CONSTRAINTS CC</p> <p>Whether digits are recognized Accurately? Is this product trustworthy?</p>	<p>5. AVAILABLE SOLUTIONS AS</p> <p>Designed to recognize only digits, hence much efficient and accurate than OCR</p>	Explore AS, differentiate
Focus on J&P, tap into BE, understand	<p>2. JOBS-TO-BE-DONE / PROBLEMS J&P</p> <p>Trustworthy ,Fast and accurate recognition of digits.</p>	<p>9. PROBLEM ROOT / CAUSE RC</p> <p>People may think that it may not accurately predict the digit and not trustworthy. Inaccurate prediction of digits in postal letters and bank cheques causes lot of issues.</p>	<p>7. BEHAVIOUR BE</p> <p>Find a right product that recognizes the digits written in all kinds of handwriting accurately and fastely</p>	Focus on J&P, tap into BE, understand

3. TRIGGERS**TR**

Seeing the OCR that recognizes the characters, comes up with a mind to use a handwritten digit recognizer.

4. EMOTIONS: BEFORE / AFTER**EM**

Time consuming,frustrating>saves time,no manual effort,less stress

10. YOUR SOLUTION**SL**

A handwritten digit recognition system using CNN that is trained with several combinations of handwritings.

8. CHANNELS of BEHAVIOUR**CH**

8.1 ONLINE

The system exhibits the similar behavior as in offline

8.2 OFFLINE

Predicts the digits accurately even in offline