Project Design Phase-I
Problem – Solution Fit Template

Date	26 September 2022
Team ID	PNT2022TMID25747
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	2 Marks

Template:

Problem-Solution fit canvas 2.0

Purpose / Vision

1. CUSTOMER SEGMENT(S) — CS
Who is your customer?

- In this Project the customers are Users who want to use this system.

6. CUSTOMER — CC
What constraints prevent your customers from taking action or limit their choices of solutions? spending power, budget, no cash, network connection, available devices.

- Lack of Datasets
- Limited Resources
- Network Connectivity

5. AVAILABLE SOLUTIONS — AS
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 pros & cons do these solutions have? pen and paper is an alternative to digital solutions.

- Use High Speed Processor
- Rollout on Open source Platform.
- Collect Different style of Datasets

2. JOBS-TO-BE-DONE / PROBLEMS — J&P
Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

- To Train and Test Datasets
- To Enhance the Image Pre-Processing.

9. PROBLEM ROOT CAUSE — RC
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.

- There are Different Style of Handwritten Datasets.
- Does not Support Optical Character Recognition

7. BEHAVIOUR — BE
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 volunteering work (i.e. Greenpeace)

- Must Keep Update with the Dataset with the Latest data.
- Must train the datas frequently

3. TRIGGERS — TR
- 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

4. EMOTIONS: BEFORE / AFTER — EM
Before: Dissatisfaction, Frustration, stressed
After: Satisfaction, Calmness

10. YOUR SOLUTION — SL
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 — CH
ONLINE

Collect the latest datasets from different

OFFLINE

Build a model