Project Design Phase-I

Problem – Solution Fit Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID52672 |
| Project Name | Project – A Novel Method For Handwritten Digit Recognition System |
| Maximum Marks | 4 Marks |

**Project Design Phase-I** - **Solution Fit Template Team ID:** PNT2022TMID52672

**Focus on J&P, tap into BE, understand RC**

**Explore AS, differentiate**

**Deﬁne CS, ﬁt into CC**

**AS**

**5. AVAILABLE SOLUTIONS**

Various people’s text should be used for train the AI. It should improve the accuracy. So training the model in a proper way to get the better outcome.

It is very difficult because most of the people have different styles. So it took too much of time to process.

**CC**

**6. CUSTOMER CONSTRAINTS**

**CS**

1. **CUSTOMER SEGMENT(S)**

In post office, officer receives the letters, couriers and document in written format

**Explore AS, differentiate**

**Define CS, fit into CC**

Before processing the image Application should verify the photo was taken in Correct Lighting. User should completely Aware of Instruction of Application.

**BE**

**7. BEHAVIOUR**

**RC**

**9. PROBLEM ROOT CAUSE**

A small error may cause the big difference in the output.

**J&P**

**2. JOBS-TO-BE-DONE / PROBLEMS**

An officer in a post office had received the letters and the couriers. Letters and the digits looks like similar one . It is very hard to find the correct one. So a handwritten digit recognition is needed to solve the problems.

**Focus on J&P, tap into BE, understand RC**

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| **Identify strong TR & EM** | **3. TRIGGERS TR**  To do the work in efficient manner | **10. YOUR SOLUTION**  The handwritten recognition model takes an image as an input and compare the preprocessed digits with the trained datasets and give the output of digits as a text well as pen-up/pen format. | 1. **CHANNELS of BEHAVIOUR**   Using software that is available on the internet.  Obtaining assistance from those nearby in-order to  recognize the digits written by their customers. |  |
| **4. EMOTIONS: BEFORE / AFTER EM**  BEFORE:  Customers want to finish its work very quickly.  AFTER:  If the working is fine , they feels better. |