

Project Design Phase-I Problem – Solution Fit

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID15811 |
| Project Name | Project - 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.**

Template:

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| Define CS, fit into CC Focus on J&P, tap into BE, understand RC | 1. CUSTOMER SEGMENT(S) Government Sectors and other agencies where they to transfer handwritten data to digital | 6. CUSTOMER CONSTRAINTS Not able to understand how process take place in background, Feeling insecure because of less information | 5. AVAILABLE SOLUTIONS Pros: Digitalize data Cons: Can Recognize only digit from image | Explore AS, differen Focus on J&P, tap into BE, understand RC |
| | 2. JOBS-TO-BE-DONE / PROBLEMS Train a model that should be able to classify image irrespective of Hand writing. | 9. PROBLEM ROOT CAUSE Convert manually written digits to digital data. | 7. BEHAVIOUR User should provide valid data to predict. They should careful while uploading their data in our website to prevent data leakage. | |
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| 3. TRIGGERS Converting manual data to digital one. | 10. YOUR SOLUTION Created Simple UI where user can data and get result displayed in UI as well as can be download the predicted output. | 8. CHANNELS of BEHAVIOUR 8.1 ONLINE Input the image from where we need to predict digit. 8.2 OFFLINE Store the predicted data in their database | | |