Project Design Phase-I - Solution Fit

Project Title: Natural Disaster Intensity Analysis and Classfication using Artificial Intelligence.

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Define CS, fit into CC

1. CUSTOMER SEGMENT: CS

- NDRF Employees
- Public
- Pilot
- Fisherman

6. CUSTOMER CONSTRAINTS CC

Prior knowledge about the disasters is necessary for the customers to take suitable actions during the time of the disaster

5. AVAILABLE SOLUTIONS AS

To classify the disasters based on their previous occurrence and to analyze the intensity of the disaster with web application and video camera as input.

Explore AS, differentia

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

2. JOBS-TO-BE-DONE / PROBLEMS J&P

This allows the officials to prepare and protect the public from the disaster.

It helps the pilot and fisherman to analyze the surrounding environment and help then carry out their work accordingly.

9. PROBLEM ROOT CAUSE RC

Disasters are unpredictable and occur at times. This results in huge loss to the resources and economy. The intensity analysis is not in the hands of the public.

7. BEHAVIOUR BE

Customers are supposed to feed the web application with a live video or a image to identify the disaster and analyze the intensity.

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

3. TRIGGERS TR

1) When there is sign of disaster.

2) When one can.t identify whether it is a disaster or not.

4. EMOTIONS:

Customers can get a knowledge about the disaster and identify the intensity of the disaster.

10. YOUR SOLUTION SL

Using a CNN model to classify the disaster and analyze the intensity of the disaster.

8. CHANNELS of BEHAVIOUR CH

8.1 **ONLINE**

Image or live video to be feed into the web application.

8.2 **OFFLINE**

Customers are supposed to take image of the disasters.

Identify