Project Design Phase-I - Solution Fit Template

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS

1.Government

2.Doctors like Ophthalmologist and Diabetologist

6. CUSTOMER CONSTRAINTS — CC

1.Spending Time

2.Risk of Serious

3. Life Threatening

4. Complications

5. AVAILABLE SOLUTIONS — AS

1.Doctors have to A nalyze every image available to classify the Diabetic Retinopathy which is the Early Detection process

2.Government has to solely rely on the doctors to make Their next move which at sometimes lead to losses of patients lives

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS — J&P

1.Able to classify the Diabetic Retinopathy Based upon five stages

*Normal

* Mild

*Moderate

*Severe Non-proliferative(NPDR)

*Proliferative Diabetic Retinopathy(PDR)

2.To Take Necessary steps to save the vision of People and to prevent the vision Loss

9. PROBLEM ROOT CAUSE — RC

Too much sugar in your Blood can lead to blockage of the tiny blood vessels that nourish the retina,cutting of its blood supply.as a result, the eye attempts to grow new blood vessels.But these new blood vessels .But these new blood vessels don't develop properly and can leak easily

7. BEHAVIOUR — BE

Collects various images from the eye of the patient and try to analyse it one by one to classify the diabetic retinopathy

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

Identify strong TR & EM

3. TRIGGERS — TR

1.Urge of saving the vision of people.

2.Fear of facing a blindness of people due to loss cause by the diabetic retinopathy

4. EMOTIONS: BEFORE / AFTER — EM

BEFORE: Fear,inadequate,Uncertain.

AFTER:Satisfaction,happiness of saving of people.

10. YOUR SOLUTION — SL

To develop deep learning approach such as Deep Convolutional Neural Network(DCCN) gives high accuracy in classification of these diseases through spatial analysis.A DCCN is more complex architecture inferred more from Human visual perspects

8.CHANNELS of BEHAVIOR — CH

8.1 ONLINE

1.collect images from patients by using the pre-processing technique.

2.Gathering information about the diabetes through the early detection process by the common patients

8.2 OFFLINE

Classify the diabetic retinopathy based upon the patient's eye disorder

Identify strong TR & EM