Project Title: Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation

Project Design Phase-I - **Solution Fit Template**

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Define CS, fit into

Explore AS, differe

1. CUSTOMER SEGMENT(S) CS

Teacher

6. CUSTOMER CONSTRAINTS CC

Some patients might find the budget for the test high, so they avoid going for the check-up and end in a critical stage.

5. AVAILABLE SOLUTIONS AS

Managing stress is an important step in keeping the heart healthy. Some ways to reduce stress include 1.Yoga 2.Meditation 3.Relaxation

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

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2. JOBS-TO-BE-DONE / PROBLEMS

Find whether he/she has heart problem and cure it

9. PROBLEM ROOT CAUSE RC

Avoiding early symptoms such as dizziness, fainting, slow or fast heart rate. They should do frequent check-ups to avoid this problem.

7. BEHAVIOUR BE

The customer should do regular check-up. If they find something that is causing the issue they should try avoiding it as the doctors recommend.

3. TRIGGERS `TR`

They may have different symptoms such as Fluttering in the chest, Racing heartbeat, Slow heartbeat, Dizziness, Shortness of breath, Chest pain etc..

4. EMOTIONS: BEFORE / AFTER `EM`

Before: Stress, Anxiety and depression

After: An emotional rollercoaster, mood swings

10. YOUR SOLUTION `SL`

To find whether the applicant has any heart issues, they just need to feed some test results into the application and based on the data provided the application will predict the issues.

8. CHANNELS of BEHAVIOUR `CH`

8.1 ONLINE

The customers can access various resources through the internet and may Analyze their symptoms with other people who are facing this issues.

8.2 OFFLINE

They can consult their issues with a senior doctor and they can also communicate with people who got cured from this disease.