Project Design Phase-I - Solution Fit Template

Project Title: Visualizing and Predicting Heart Diseases with an Interactive Dash Board

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Doctors, Medical professionals and patients or people who want to know whether they are prone to heart disease all come under individual users.

6. CUSTOMER CONSTRAINTS CC

1. Expenses in treating heart diseases.
2. Patient may not have time to visit a professional doctor
3. Doctors may be unavailable

5. AVAILABLE SOLUTIONS AS

Many different test are used to diagnose heart disease.

i. ECG
ii. Holter monitoring
iii. Echocardiogram
iv. Exercise test or stress tests
v. CT or MRI scan
vi. Cardiac catheterization

Explore AS, differentiate

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

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

The jobs to be done are,

1. Upload the dataset
2. Preprocess the dataset.
3. Exploring the dataset
4. Perform metrics and rules.
5. Visualizing the data

The problems are,

1. Wrong input
2. Data latency
3. Poor network standard

9. PROBLEM ROOT CAUSE RC

i. Unhealthy lifestyle of people.
ii. Testing of disease in the later stage.
iii. Expensive treatment for treating it.
iv. High death ratio due to heart disease.

7. BEHAVIOUR BE

The behavior includes,

i. Can easily visualize changes according to the data given.
ii. Easy to use.
iii. Customizable according to user preferences.

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

3. TRIGGERS TR

The triggers of the solution are,

1. Diagnosing heart disease at end stage.
2. Increased death ratio due to heart diseases.

4. EMOTIONS: BEFORE / AFTER EM

Before: Not following a healthy lifestyle and testing for heart disease only after getting some symptoms.

After: Gets to know about the chance of having heart disease in future and lead a healthy lifestyle accordingly.

10. YOUR SOLUTION

A system that provides visualization and prediction whether or not a person has heart disease. The user feeds in the necessary data required and system outputs the possibility of the person having a heart disease

8. CHANNELS of BEHAVIOUR CH

8.1 OFFLINE

As Patients use and share their experience, other patients are introduced to it. For Medical Institutions, a group of professionals are involved and through word-of-mouth, other Medical Institutions and individuals will become aware of this application.

8.2 ONLINE

The system can be accessed through modern-day browsers like Chrome, Safari, Firefox, etc.