

# Project Title: Visualizing and Predicting Heart Diseases with an InteractiveDash Board

## Project Design Phase-I - Solution Fit Template

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Define CS, fit into CC

### 1. CUSTOMER SEGMENT(S)

CS

People with heart disease.  
Aged Persons (Above 60)

### 6. CUSTOMER CONSTRAINTS

CC

Avoidable medical errors. Low treatable mortality rates. Lack of transparency. Difficulty finding a good doctor. High maintenance costs. A different perspective on solving the shortage crisis.

### 5. AVAILABLE SOLUTIONS

AS

→ Avoid smoking  
→ Take healthy foods  
→ Visit cardiologist in case of any symptoms  
→ Maintaining healthy exercise

Explore AS, differentiate

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

### 2. JOBS-TO-BE-DONE / PROBLEMS

J&P

Coronary artery disease is a common heart condition that affects the major blood vessels. Cholesterol deposits (plaques) in the heart arteries are usually the cause of coronary artery disease.

### 9. PROBLEM ROOT CAUSE

RC





A buildup of fatty plaques in the arteries (atherosclerosis) is the most common cause of coronary artery disease. Risk factors include a poor diet, lack of exercise, obesity and smoking.

### 7. BEHAVIOUR

BE

Chest pain or discomfort, Shortness of breath, Slow heartbeat, Lightheadedness, Swelling in the legs, belly area or areas around the eyes.

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

Identify strong TR & EM	<p>3. <b>TRIGGERS</b> </p> <p>Insufficient ways of handling huge amounts of datasets and inferring the root cause of the heart disease cannot be found out. Similarity of heart disease has not been identifiable.</p>	<p>10. <b>YOUR SOLUTION</b> </p> <p>With the notable technology of AI/ML we are able to visualize and predict heart diseases and related diseases, by the ultimate power Cognos Analytics Tool we will be able to properly create a dashboard for the customers to work with and visualize and analyze the heart disease on their work with limited knowledge.</p>	<p>8. <b>CHANNELS of BEHAVIOUR</b> </p> <p>8.1 <b>ONLINE</b> Visualizing the datasets. Exploration of data</p> <p>8.2 <b>OFFLINE</b> Cleansing of datasets. Collection and noting the datasets.</p>	Identify strong TR & EM
	<p>4. <b>EMOTIONS: BEFORE / AFTER</b> </p> <p><b>Before</b> -&gt; It creates a huge ambiguity in knowing the proper or accurate reasons for a heart disease.</p> <p><b>After</b> -&gt; There is a large chance understanding of the heart disease and root cause of it, which makes a better solution and finding a preventive way over it.</p>			