

Project Design Phase-1

Problem Solution Fit

Date	01-10-2022
Team ID	PNT2022TMID08156
Project Name	Project-Early Detection of Chronic Kidney Disease using Machine Learning
Maximum Marks	2 marks

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS ★ The people who are experiencing an increase in blood pressure, diabetes, increased cholesterol levels or mild kidney infections can get their diagnosis based on the specified parameters in the model interface without undergoing any costly, time taking and painful screening which may turn out to be negative	6. CUSTOMER LIMITATIONS CL <small>EG. BUDGET, DEVICES</small> ★ As the proposed solution is a webpage which only runs on a device like a mobile phone, desktop, laptop, etc., ★ People who don't own any such device will not be able to access the proposed solution. ★ Also, an internet connection is important to access this solution. ★ People living in no internet, connectivity areas won't be able to access the solution.	5. AVAILABLE SOLUTIONS AS <small>PROS & CONS</small> ★ There are many solutions available for the diagnosis of Chronic Kidney Disease. ★ But these solutions are not very user friendly and the accuracy of the system. ★ Is very less to be considered for real-life implementation and as substitutes to traditional medical diagnosis systems.	Explore AS, differentiate
	2. PROBLEMS / PAINS PR <small>• ITS FREQUENCY</small> The problems to be addressed while determining Chronic Kidney Diseases are: ★ The Levels of parameters contributing to the Chronic Kidney Diseases are analyzed together. ★ The AI model makes predictions in a very short than human diagnosis. ★ The System also notifies the slight variations in the health parameters. ★ The System also provides diet plans in order to control other malfunctioning of the body.	9. PROBLEM ROOT / CAUSE RC ★ The root cause of the existence of the problem is that there is not much awareness regarding kidney health among people. ★ Sometimes, this may be hereditary which is rare in this case. ★ People's unplanned lifestyles have brought up such problems. ★ So, In this busy lifestyle, this application really helps people with the quick and easy diagnosis.	7. BEHAVIOR BE <small>• ITS INTENSITY</small> ★ After giving all the required inputs to the the system, predicts whether the person has a chance of having kidney disease or not. ★ If a person is expected to have kidney disease, he/she has to start taking the treatment by consulting a doctor in person and obtaining the necessary treatment immediately.	Focus on PR, tap into BE, understand RC
Identify strong TR & EM	3. TRIGGERS TO ACT TR ★ The need to use this system may rise when the person notices few mild symptoms but wants to get a opinion before consulting a physician.	10. YOUR SOLUTION SL ★ The targeted customers are the people with slight symptoms of the disease and are likely to use the application due to their busy schedules. ★ The solution that fits the customers is an online an application where they can enter the required details and get quick results.	8. CHANNELS of BEHAVIOR CH ONLINE ★ The website once hosted can be used by anyone to predict the presence of disease in them. ★ So, it is easily accessible in online mode.	Extract online & offline CH of BE
	4. EMOTIONS EM <small>BEFORE / AFTER</small> ★ The customers may be doubtful about what to do, when he is diagnosed positive before using the system which is prescribed in the system after diagnosis.		OFFLINE ★ The patient has to go to the hospital and get the tests are done, wait for the report. And then obtain the test results regarding the prediction of disease presence. which is both time and cost-consuming.	