

Project Title: Early Detection of Chronic Kidney Disease

Problem **Solution Fit**

Team ID: PNT2022TMID39471

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) Typical people who want to check if they have chronic renal disease CS	6. CUSTOMER CONSTRAINTS The management of kidney disease may depend on your ability to reduce your intake of potassium, phosphorus, and sodium. Limiting or avoiding the aforementioned foods that are high in potassium, salt, and phosphorus is probably advised. CC	5. AVAILABLE SOLUTIONS With the Minutely Kidney test app and kit, people can test for signs of CKD at home and quickly receive clinical results. In lieu of dialysis, kidney transplantation is a therapy option for patients whose kidney function has drastically decreased. is an alternative to digital notetaking AS
	2. JOBS-TO-BE-DONE / PROBLEMS The present GFR test might not actually detect chronic kidney disease, but only renal functioning. A kidney transplant causes excruciating pain for both the receiver and the donor. In this case, CKD results in death, which is a serious concern. J&P	9. PROBLEM ROOT CAUSE Since CKD has no symptoms, identifying its underlying cause can be difficult. They would have disregarded it or missed it at first. Excessive blood sugar, high blood pressure, anaemia, improper lifestyle and food choices, and others may be some of the underlying causes RC	7. BEHAVIOUR Patient test results will initially be accepted as input by the front-end of the built system. The ML model uses the supplied input to make predictions about the future. Because it is free and simple to use, users gain a lot from it. BE

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

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Identifying triggers & EM	3. TRIGGERS TR People who suffer from conditions like high blood pressure, diabetes, anaemia, etc. could see their friends obtaining GFR tests. When people experience abdominal pain, they may seek medical attention.	10. YOUR SOLUTION SL When using a web application, it should be advantageous to identify CKD early since it allows medical practitioners to treat mild disease efficiently from the outset, avoid or delay the loss of kidney function, and restrict kidney function loss.	8.CHANNELS of BEHAVIOUR CH 8.1 ONLINE The patient must enter the relevant test data from their health check-up into the online web application in order for the machine learning model to provide a prediction. 8.2OFFLINE Patients must visit a hospital to complete their health examination, where the results are then transmitted by the Web application.
	4. EMOTIONS: BEFORE / AFTER EM People with CKD who experience pain may experience depression, whereas those who receive early diagnosis and treatment may experience joy.		