

Project Initialization and Planning Phase

Date	07 July 2024
Team ID	SWTID1720190579
Project Name	Early Prediction of Chronic Kidney Disease Using Machine Learning
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

CKD is prevalent globally and is one of the most critical health issues that affect numerous people and results in severe adverse effects if not diagnosed on time. The patients with the disease remain undiagnosed for the longest time and even if diagnosed, the fine is often diagnosed when it is already at an advanced stage, leading to worsened morbidity and mortality and more health care costs. The standard approaches include laboratory tests clinical remarkable signs, and assessments; however, they are usually not as regular to identify early CKD.

There is a growing requirement by healthcare workers and patients to find an easy, effective, and minimally invasive method to diagnose CKD and monitor the disease at an early stage. An early prediction system would lead to early treatment and therefore enhance patient health and decrease the costs of health care since the patients would not progress to higher stages, which are more costly, such as dialysis and/or kidney transplantation.

Reference: <https://miro.com/templates/customer-problem-statement/>

I am	I'm trying to	But	Because	Which makes me feel
Patient suffering with CDK at final stage.	Cure my disease as soon as possible and have a healthy life	This Treatment costs more	Daily worker with a minimum wage	ebullient that my illness treatment was completed
Patient suffering from CDK at the middle stage	Hope it does not get worse because the final stage is frightening	This takes more time and costs more	Businessman with a steady life and earn very low	Hoping to cure my disease as soon as possible

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Patient suffering with CDK at final stage.	Cure my disease as soon as possible and have a healthy life	This Treatment costs more	Daily worker with a minimum wage	ebullient that my illness treatment was completed
PS-2	Patient suffering from CDK at the middle stage	Hope it does not get worse because the final stage is frightening	This takes more time and costs more	Businessman with a steady life and earn very low	Hoping to cure my disease as soon as possible