

Ideation Phase

Brainstorm & Idea Prioritization

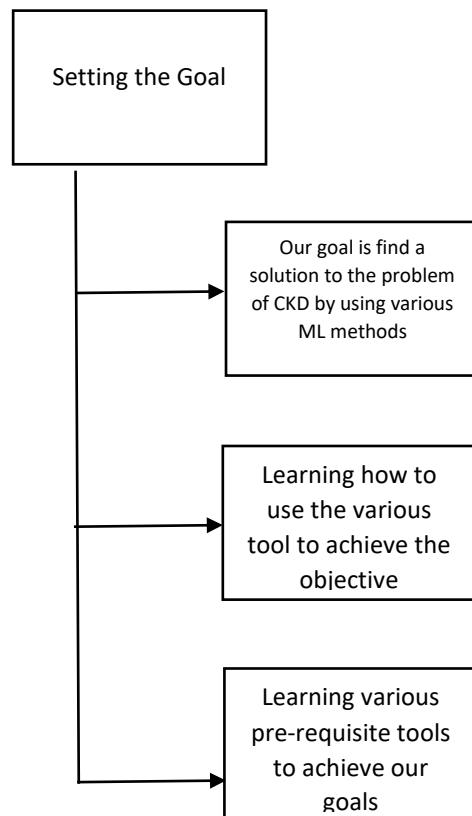
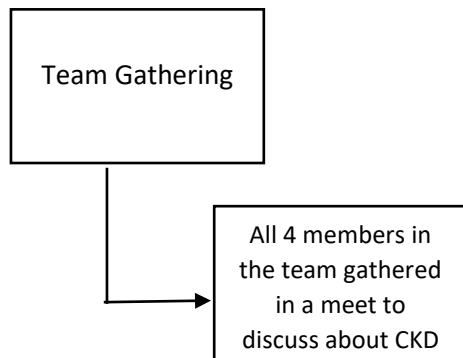
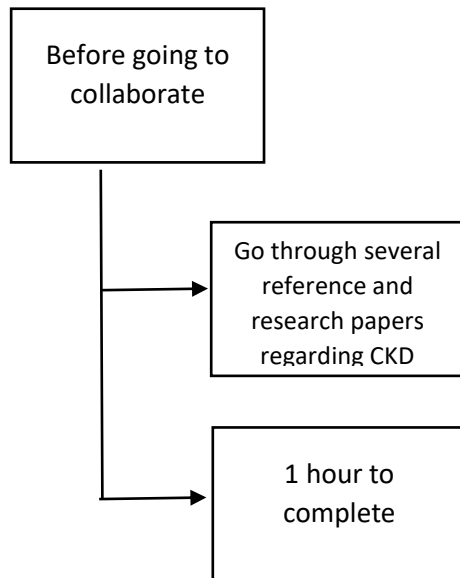
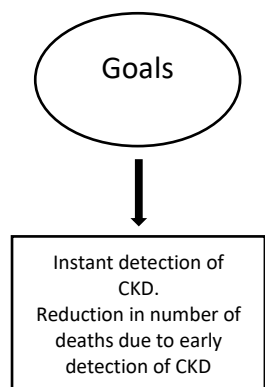
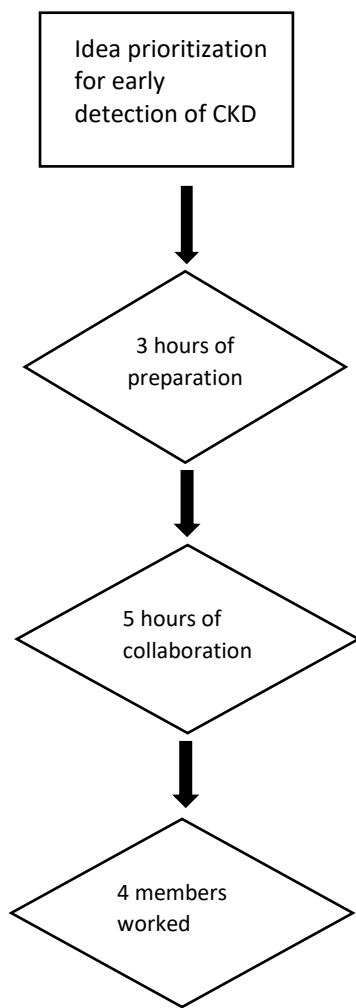
Date	22 September 2022
Team ID	PNT2022TMID27324
Project Name	Early Detection Of Chronic Kidney Disease
Maximum marks	4 marks

Brainstorm & Idea Prioritization:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem-solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Reference:

Step 1: Team Gathering, collaboration and select the problem statement



Problem: How can we identify, detect and diagnose any kidney issues in human using machine learning techniques.

Chronic kidney disease is among the top 20 causes of death worldwide and affects approximately 10% of the world's adult population. CKD is a disorder that disrupts normal kidney function Due to the increasing number of people with CKD, effective prediction measures for early detection of CKD are required. The novelty of this study lies in developing the diagnosis system to detect chronic kidney disease. The main objective of this technique was to predict patients with CKD using fewer attributes while maintaining high accuracy. Here we obtain an accuracy of about 96%.

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

Abilash S	E Hari Babu	Aakash D	Adith V Gopal
Create the awareness about CKD	People must follow diet & exercise	Mostly aged people gets affected	There are no significant symptoms
Frequent checkups	Avoid doing kidney transplant	Avoid smoking and alcholohism	There are many stages in CKD
Stay Hydrated	Check color of urine	Dialysis is a temporary method of treatment	Statistically analyzing the collecting data
Diet control	Limited intake of sodium	Some develop CKD overtime due to illness	Check anemia, edema, etc
Restrict the amount of protein in diet may slow down progression	Avoid taking high dosage of medicine	Analysis about irregular heart beat	Eat healthy foods

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

DETECTION

Check blood sugar level, anemia, edema, albumin

Blood test for glucose saturation rate

CAUSES

Diabetes, High Blood Pressure

Excess intake of sodium and vitamin D

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

PRECAUTIONS

For those above 40 years, may have less intake of salt

Choose food with less amount of Potassium

PREVENTIVE MEASURES

Have a healthy diet

Take appropriate fluid intake

ADVANTAGES

Avoid kidney transplant

Easy picking of healthy donor

DRAWBACK

No ML technique has 100% accuracy

CKD has no major symptoms

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes

