Visualizing and Predicting Heart Diseases with an Interactive Dash Board

Date	19 September 2022
Team ID	PNT2022TMID11458
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Maximum Marks	4 Marks

Brainstorm
& idea prioritization

Danushraj M ,Harish V ,Joel Moses S ,Michael Roshan J

1

Define your problem statement

The leading cause of death in the developed world is heart disease. Therefore, there needs to be work done to help prevent the risks of having a heart attack or stroke.

2

Brainstorm

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

⏱ 10 minutes

Team member 1

Collect user data	Get inputs from healthcare facility	Import Required Data
Prepare the data for exploration	Explore the formatted data	Create relationships between variables
Visualize the explored data into visualizing tools		

Team member 2

Analyze Patient's medical history	Monitor Number of people affected by heart disease	Pre interaction of strokes or cardiac arrest
Compute after effects of a disease	Monitor patient's recovery rate	Collaborate with healthcare experts
Data exploration and Visualization		

Team member 3

Number of people affected in a particular region	To monitor patient using the available data	Analyse pattern of heart disease in a particular region
Prediction of heart disease during the analyzed data	Deploying an assistant to the users during their illness	To reduce the death rate
Categorizing people by their age		

Team member 4
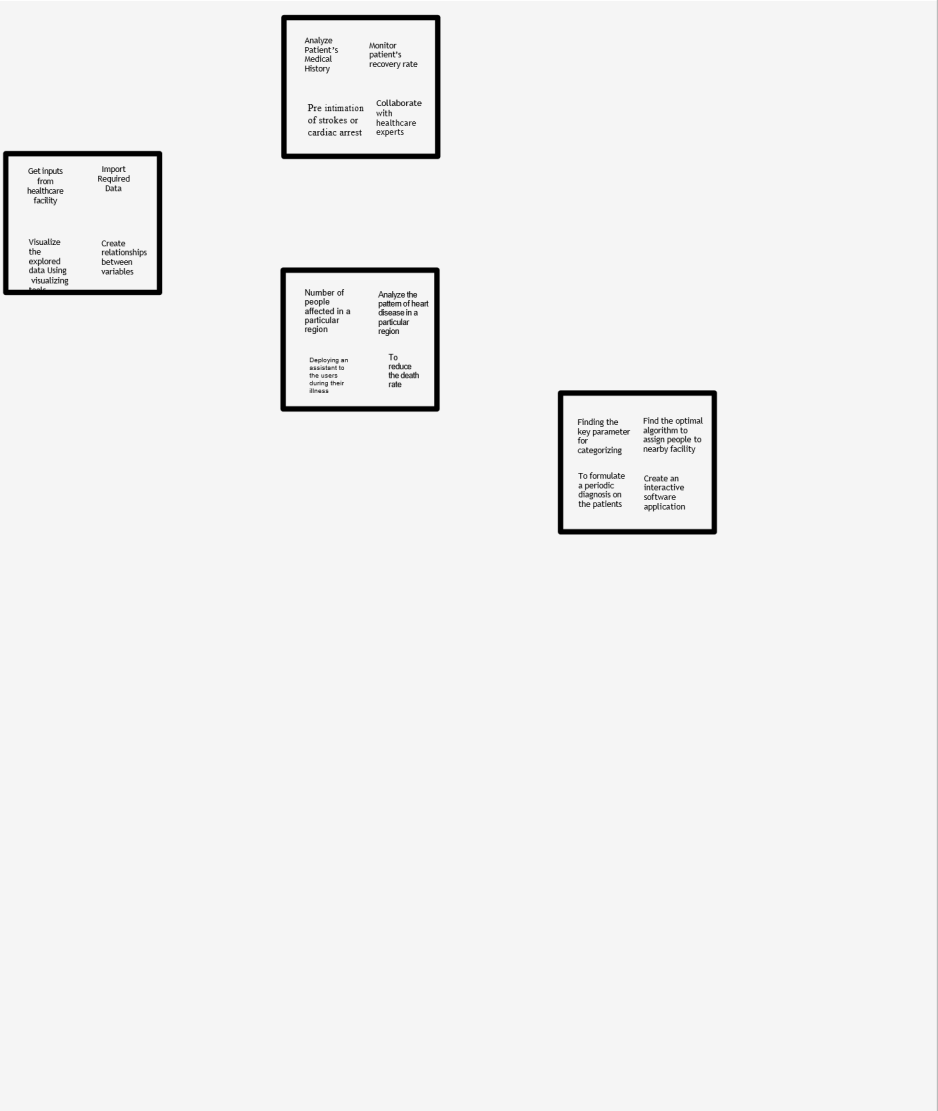
| Collect Data from hospital | Categorizing people by their age and gender | Finding the key parameter for categorizing |
| Find the optimal algorithm to assign people to nearby facility | To formulate a periodic diagnosis on the patients | Create an interactive software application |

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go.
In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

⏱ 20 minutes

| Analyze Patient's medical History | monitor patient's recovery rate |
| Pre intimation of strokes or cardiac arrest | Collaborate with healthcare experts |

| Get inputs from healthcare facility | Import Required Data |
| Visualize the explored data into visualizing | Create relationships between variables |

| Number of people affected in a particular region | Analyze the pattern of heart disease in a particular region |
| Deploying an assistant to the users during their illness | To reduce the death rate |

| Finding the key parameter for categorizing | Find the optimal algorithm to assign people to nearby facility |
| To formulate a periodic diagnosis on the patients | Create an interactive software application |

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

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

- Create Awareness among people
- Collect user data of different
- Develop an Interactive
- Analyse patients medical history
- Deploying Assistant in cases of illness
- Analyse the pattern involved
- Collaborate with healthcare experts
- Prediction of Heart disease using the explored data
- Good Healthcare systems
- Analyse Patient Medical History
- Compute after effects of a disease

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)