Visualizing and Predicting Heart Diseases with an Interactive Dash Board

Brainstorm & idea prioritization

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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.
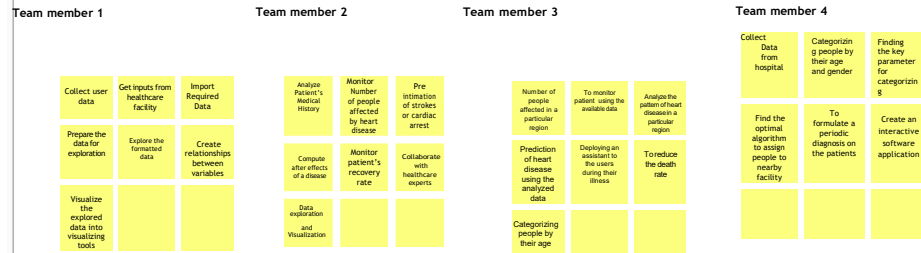
⏱ 10 minutes

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
- Visualise the explored data into visualizing tools

Team member 2

- Analyse Patient's Medical History
- Monitor Number of people affected by heart disease
- Pre initiation of strokes or cardiac arrest
- Compute after effects of a disease
- Monitor patient's recovery rate
- Collaborate with healthcare experts
- Data exploration and Visualisation

Team member 3

- Number of people affected in a particular region
- To monitor patient using the available data
- Analyse the pattern of heart disease in a particular region
- Prediction of heart disease using the analyzed data
- Deploying an assistant to the users during their illness
- Find the optimal algorithm to assign people to nearby facility
- Categorizing people by their age

Team member 4

- Collect Data from hospital
- Categorizing people by their age and gender
- Finding the key parameter for categorization
- Find the optimal algorithm to assign people to nearby facility
- To formulate a periodic diagnosis on the patients
- To reduce the death rate
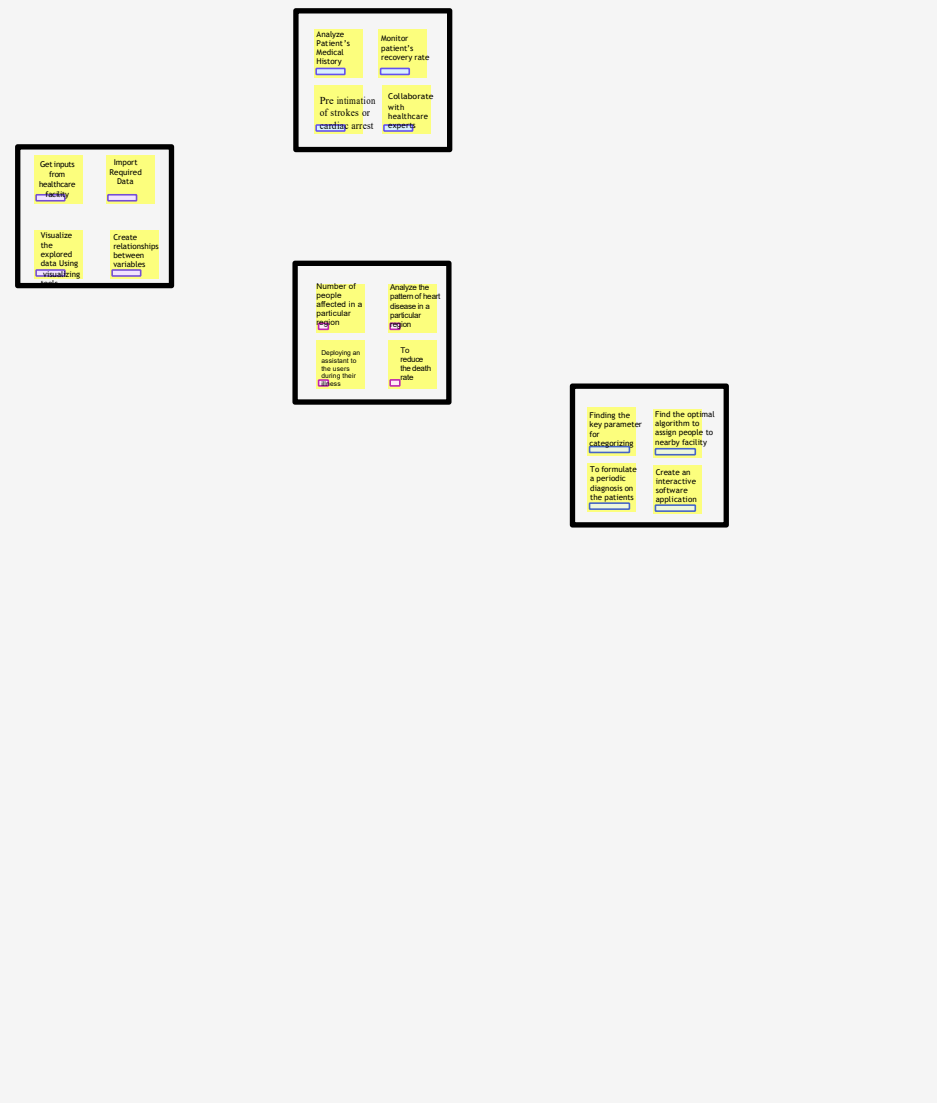- Create an interactive software application

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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

- Analyse Patient's Medical History
- Monitor patient's recovery rate
- Pre initiation of strokes or cardiac arrest
- Collaborate with healthcare experts

- Get inputs from healthcare facility
- Import Required Data
- Visualise the explored data using tools
- Create relationships between variables

- Number of people affected in a particular region
- Analyse 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 categorization
- 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?

♡

Feasibility

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

⚑

- Create Awareness among people
- Collect user data of different
- Develop an Interactive
- Analyse patients medical history
- Deploying Assistant in times 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