


## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	23 September 2022
Team ID	PNT2022TMID07721
Project Name	Analytics for Hospital's Health-Care data
Maximum Marks	4 Marks




#### Step-1: Team Gathering, Collaboration and Select the Problem Statement


Template




## Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.


 10 minutes to prepare  
 1 hour to collaborate  
 2-8 people recommended


 Share template feedback




### Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.


 10 minutes

**Team gathering**

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

**Set the goal**

Think about the problem you'll be focusing on solving in the brainstorming session.

**Learn how to use the facilitation tools**

Use the Facilitation Superpowers to run a happy and productive session.

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### 1. Define Your problem statement

In Kurnaran Hospital, Coimbatore there are lots of patients admitted and as well as discharged day by day. When this hospital hit the period of pandemic there was a sudden rise in allocation of beds and oxygen cylinders which they some how managed. This rise in allocation should be predicted before so that an analysis will be made in order to manage the hospital resources and also to predict how patients who are already admitted in the hospital is going to stay in the hospital.

PROBLEM

**Number of patients staying in hospital are increasing**

PROBLEM

**Limited hospital resources**

PROBLEM

**Newly admitted patients are been left out when there is serious illness**

PROBLEM

**Difficult to manage huge amount of data when there is sudden outbreak of a particular disease**

## Step-2: Brainstorm, Idea Listing and Grouping

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### Brainstorm

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

10 minutes

#### Dharshan Prasath H

Predictive analysis can be made using regression

Analysing the obtained data with Cognos and getting inference from it

Track the average stay of each patient

Connecting hospital management with predictive analysis model

Decision tree with many constraints can be made for predicting the patients stay

Identify the illness level of each patient

Managing each person health records using cloud can make pre caution measures

Random forest can be made with many decision trees

Modifying the hospital resources usage according to the patient stay time period

Reducing the complexing of the data using denoising can reduce unwanted data

#### Dheyalini P U

Managing each person health records using cloud can make pre caution measures

Random forest can be made with many decision trees

Modifying the hospital resources usage according to the patient stay time period

Reducing the complexing of the data using denoising can reduce unwanted data

#### Abisha R

Decision tree with many constraints can be made for predicting the patients stay

Analysing the obtained data with Cognos and getting inference from it

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Random forest can be made with many decision trees

Modifying the hospital resources usage according to the patient stay time period

#### Savitha P

Using old classification techniques such as Naive Bayes theorem for making a probabilistic model

Feeding the required dataset with more conditions can make accurate results

Overcrowding can be avoided by providing enough health care facilities on time

Bringing mobile application to book there beds can reduce the time and rush

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### 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 can break it up into smaller sub-groups.

20 minutes

Predictive analysis can be made using regression

Analysing the obtained data with Cognos and getting inference from it

Track the average stay of each patient

Connecting hospital management with predictive analysis model

Decision tree with many constraints can be made for predicting the patients stay

Identify the illness level of each patient

Allocating hospital resources according to the patient illness

Random forest can be made with many decision trees

Managing each person health records using cloud can make pre caution measures

Using old classification techniques such as Naive Bayes theorem for making a probabilistic model

Feeding the required dataset with more conditions can make accurate results

Overcrowding can be avoided by providing enough health care facilities on time

## Step-3: Idea Prioritization

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### 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

