

IDEATION PHASE

BRAINSTORM & IDEA PRIORITIZATION TEMPLATE

Date	18 September 2022
Team ID	PNT2022TMID30370
Project Name	Analytics For Hospitals' 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

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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

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

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

C Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#) →

1 Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes

Analytics For Hospitals' Health-Care Data

Recent Covid-19 Pandemic has raised alarms over one of the most overlooked areas to focus: Healthcare Management. While healthcare management has various use cases for using data science, patient length of stay is one critical parameter to observe and predict if one wants to improve the efficiency of the healthcare management in a hospital. This parameter helps hospitals to identify patients of high LOS-risk (patients who will stay longer) at the time of admission. Once identified, patients with high LOS risk can have their treatment plan optimized to minimize LOS and lower the chance of staff/visitor infection.

Also, prior knowledge of LOS can aid in logistics such as room and bed allocation planning.

Suppose you have been hired as Data Scientist of Health Man – a not for profit organization dedicated to manage the functioning of Hospitals in a professional and optimal manner.

Goal:

The goal is to accurately predict the Length of Stay for each patient on case by case basis so that the Hospitals can use this information for optimal resource allocation and better functioning. The length of stay is divided into 11 different classes ranging from 0-10 days to more than 100 days.

Technical Architecture:



Need some inspiration?

See a finished version of this template to kickstart your work.

[Open example](#) →

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm
Write down any ideas that come to mind that address your problem statement.
[10 minutes](#)

Pavithra
bharathi E

Severity
and Stage
of disease

Comorbidities
(diabetes, hypertension, obesity)

Antibiotic
resistance

Hospitality

Veerajothi M

Type of
complaint
the disease
causing

Progression

Previous
history

Age

Doctor
patient
rapo

Leonyelavarasi D

Response
to therapy

Based on
blood
volume

Availability
of bed

Mindset
of the
patients

Sneka N, Sathya S

Patient
Undergoing
surgery

Patients with
hypersensitivity

Associated
factors

Tolerance

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](#)

Severity
and Stage
of disease

Type of
complaint
the disease
causing

Response
to therapy

Based on
blood
volume

Patient
Undergoing
surgery

Patients with
hypersensitivity

Progression

Comorbidities
(diabetes,
hypertension,
obesity)

1

2

3

1

2

3

1

2

3

Step-3: Idea Prioritization

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

