Ideation Phase
Brainstorm & Idea Prioritization Template

Date	28 June 2025
Team ID	
Project Name	
Maximum Marks	4 Marks

1. Brainstorming & Problem Identification

2

Brainstorm

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

⏱ 10 minutes

Person 1

Mohan Krishna

Person 2

M Naggassrii

Person 3

Lingala Rajesh

Person 4

Lalith Sai Nadh Ganta

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

2.1 Context and Motivation
In modern academic environments, the dietary habits of college students
have a significant influence on their physical well-being, mental health, and
academic performance. With busy schedules, inconsistent meal patterns,
and limited nutritional awareness, students often fall into unhealthy eating
routines. This challenge presents an opportunity for data-driven
intervention.

2.2 Problem Statement
*"How can we leverage data visualization tools to monitor, understand, and
improve the dietary choices of college students?"*

2.3 Project Vision
The project aims to build a comprehensive, interactive dashboard using
Tableau, integrated into a Flask-based web platform. This system will
visualize complex dietary datasets and help universities:

2.4 Brainstorming Questions
During ideation, the following guiding questions shaped the analytical and
technical scope of the project:
· What dietary patterns can be identified across student demographics?
· How do lifestyle habits (e.g., cooking, exercise, sleep) correlate with GPA
and self-perceived health?
· Can real-time data visualization help in early identification of health
issues?
· How can data be used to encourage healthier eating habits institution-
wide?

2.5 Tool Selection Rationale
· **Tableau:** For its powerful data visualization, ease of data preparation, and
dynamic dashboard creation.
· **Flask:** To create a lightweight yet flexible web interface for hosting the
dashboards.
· **CSV Dataset:** A structured and easily readable format for dietary,
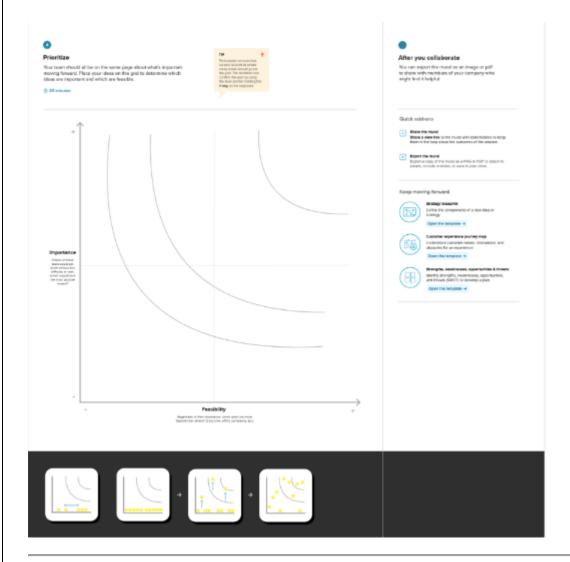behavioral, and demographic data.

1.1 Context and Motivation

In modern academic environments, the dietary habits of college students have a significant influence on their physical well-being, mental health, and academic performance. With busy schedules, inconsistent meal patterns, and limited nutritional awareness, students often fall into unhealthy eating routines. This challenge presents an opportunity for data-driven intervention.

1.2 Problem Statement

"How can we leverage data visualization tools to monitor, understand, and improve the dietary choices of college students?"

1.3 Project Vision

The project aims to build a comprehensive, interactive dashboard using Tableau, integrated into a Flask-based web platform. This system will visualize complex dietary datasets and help universities:

- Monitor nutrition and health trends in real-time

- Identify unhealthy eating patterns or deficiencies

- Enable predictive planning and personalized interventions

- Support awareness programs and informed resource allocation

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1.4 Brainstorming Questions

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- How do lifestyle habits (e.g., cooking, exercise, sleep) correlate with GPA and self-perceived health?

- Can real-time data visualization help in early identification of health issues?

- How can data be used to encourage healthier eating habits institution-wide?

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