**Ideation Phase**

**Brainstorm & Idea Prioritization**

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| Date | 20 May 2023 |
| Team ID | NM2023TMID11307 |
| Project Name | Project - Estimation and prediction of hospitalization and medical care costs |
| Maximum Marks | 4 Marks |

**Brainstorm & Idea Prioritization :**

1. Data Collection and Analysis:

* Gather data from healthcare systems, insurance providers, and government agencies to estimate healthcare expenditures related to obesity.
* Analyze healthcare claims data, hospital records, and population surveys to assess the impact of obesity on healthcare costs
* Prioritize data collection from diverse populations to ensure a comprehensive understanding of the problem.

1. Identification and Categorization of Costs:

* Categorize healthcare expenditures into direct costs (e.g., medical treatments, hospitalizations, medications) and indirect costs (e.g., productivity loss, disability-adjusted life years).
* Break down costs by different healthcare components such as outpatient care, inpatient care, emergency department visits, and preventive services.
* Identify costs specifically associated with obesity-related conditions, including diabetes, cardiovascular diseases, musculoskeletal disorders, certain cancers, and mental health conditions.

1. Comparison with Non-Obese Population:

* Obtain healthcare expenditure data for the non-obese population to compare the additional costs attributable to obesity.
* Analyze the cost difference in various healthcare components between the obese and non-obese populations.
* Assess the potential cost savings achievable through effective obesity prevention strategies.

1. Cost-Effectiveness Analysis:

* Conduct a cost-effectiveness analysis of different prevention strategies, considering primary and secondary prevention measures.
* Evaluate interventions such as community-based programs, education campaigns, healthy lifestyle promotion, and policy interventions to identify the most cost-effective options.
* Estimate the potential return on investment (ROI) for each prevention strategy to prioritize the most impactful and economically viable approaches.

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

Graphical user interface, application

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**Step-2: Brainstorm, Idea Listing and Grouping**Graphical user interface, treemap chart

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**Step-3: Idea Prioritization**

**Diagram

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