Project Report Format

1. INTRODUCTION:

1.1 Project Overview:

"Comprehensive Analysis and Dietary Strategies with Tableau: A College Food Choices Case Study" is an innovative project aimed at revolutionizing how dietary data among college students is visualized and utilized to drive informed decision-making and enhance student health and academic performance.

1.2 Purpose:

In today's educational environment, it's crucial to have access to comprehensive insights into dietary trends, nutritional habits, and health impacts to empower stakeholders with actionable information.

2. IDEATION PHASE:

2.1 Problem Statement:

This project seeks to create a dynamic and intuitive platform using Tableau, where data from various aspects of student diets, exercise habits, and health perceptions can be transformed into interactive visualizations and insightful analytics.

2.2 Empathy Map Canvas:
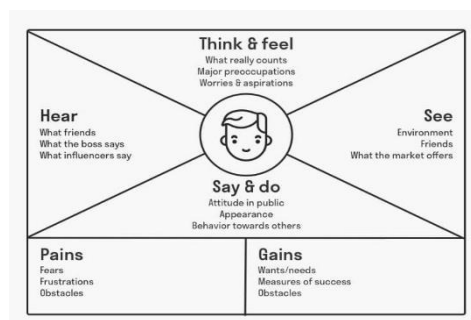
2.3 Brainstorming:

By leveraging Tableau's capabilities effectively, the "Enhancing Dietary Strategies" project aims to empower educational institutions with actionable insights, foster data-driven decision-making, and drive student well-being by facilitating a deeper understanding of dietary dynamics and promoting evidence-based nutritional strategies.

3. REQUIREMENT ANALYSIS:

3.1 Customer Journey map:

A customer journey map for food choices at college typically outlines the various stages students go through when selecting meals, from awareness of dining options to post-meal feedback. It highlights key touchpoints, emotions, and potential pain points, helping institutions enhance the overall dining experience.

3.2 Solution Requirement:

Real-time monitoring of dietary choices, meal consumption patterns, and nutritional intake enables timely interventions, personalized nutrition plans, and continuous support to encourage long-term healthy eating habits among students.

3.3 Data Flow Diagram:
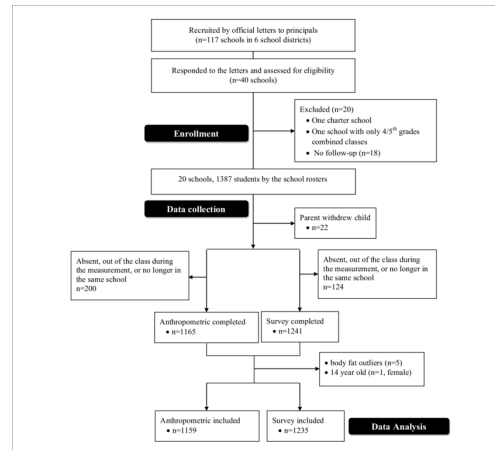
3.4 Technology Stack:

By leveraging Tableau's capabilities effectively, the "Enhancing Dietary Strategies" project aims to empower educational institutions with actionable insights, foster data-driven decision-making, and drive student well-being by facilitating a deeper understanding of dietary dynamics and promoting evidence-based nutritional strategies.

4. PROJECT DESIGN:

4.1 Problem Solution Fit:

specific challenges students face, such as limited healthy options, food insecurity, and dietary restrictions. Solutions may include enhancing menu variety, improving accessibility to nutritious meals, and providing educational resources on healthy eating, ensuring that offerings align with student needs and preferences.

4.2 Proposed Solution:

We use Comprehensive Dining Program for the solution of the problem that had been addressed in the project of food choices of college students.

4.3 Solution Architecture:

5. PROJECT PLANNING & SCHEDULING:

5.1 Project Planning:

This phase of project involves some scenarios like

- Scenario 1: Monitoring Nutritional Intake
- Scenario 2: Addressing Dietary Deficiencies
- Scenario 3: Predictive Analysis and Personalized Nutrition Plans

6. FUNCTIONAL AND PERFORMANCE TESTING:

6.1 Performance Testing:

The objective of performance testing for the Comprehensive Dining Program is to ensure that all components of the program, including the new menu offerings, mobile app, and overall dining experience, meet the expected standards of quality, efficiency, and user satisfaction, which may involve the key aspects such as,

- Menu Offerings
- Mobile App Performance
- Dining Experience

7. RESULTS:

7.1 Output Screenshots:
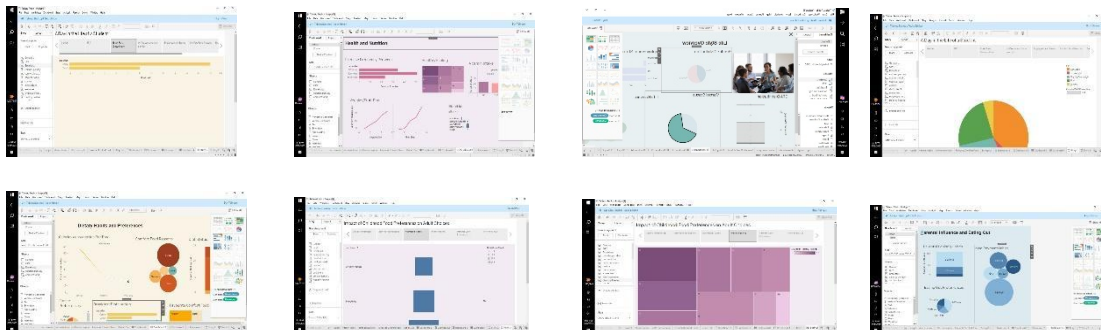
8. ADVANTAGES & DISADVANTAGES:

8.1. Advantages:

- Diverse food options
- Healthier Eating Habits
- Increased Student Satisfaction
- Sustainable Practice

8.2. Disadvantages:

- Implementation Costs
- Resistance to Change
- Operational Complexity
- Technology Dependence

9. CONCLUSION:

The Comprehensive Dining Program presents a valuable opportunity to enhance the food choices and overall dining experience for college students. By addressing diverse dietary needs, promoting healthier eating habits, and leveraging technology for convenience, the program aims to foster a positive and engaging dining culture on campus.

10. FUTURE SCOPE:

The future scope of the Comprehensive Dining Program is vast and filled with opportunities for innovation and improvement. By continuously adapting to the evolving needs of students and embracing new trends in dining and nutrition, the program can significantly enhance the college experience. This proactive approach will not only improve student satisfaction but also contribute to a vibrant and health-conscious campus culture.

11. APPENDIX:

Phase	Duration	Key Activities
Data Collection	week 1	Surveys, focus groups, and analysis of current offerings.
Data Visualisation	week 1	Collaborate with nutritionists and chefs to create menu.
Application Development	week 2	Develop and test the mobile app.
Tableau Execution	week 2-3	Create promotional materials and organize events.
Program Conclusion	week 3-4	Implement new menu and app; train staff.
Feedback and Improvement	week 4	Collect feedback and make adjustments.

Source Code:

Dataset Link:

GitHub & Project Demo Link: