

# PROJECT REPORT

## 1.INTRODUCTION

### 1.1 Project Overview

**Title:** Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis

**Objective:**

To analyze and visualize the levels and trends of economic freedom across countries using Tableau, and to understand how different aspects of economic freedom correlate with prosperity indicators such as GDP, human development, and investment inflows.

**Scope:**

This project involves collecting data from global economic freedom indices (such as the Heritage Foundation or Fraser Institute), and visualizing various dimensions such as property rights, trade freedom, government integrity, tax burden, and business freedom. The analysis seeks to reveal patterns and disparities in economic freedom worldwide and how these factors influence overall prosperity.

**Key Goals:**

Collect and clean country-wise economic freedom index data over multiple years.

- Use Tableau to build comparative and trend-based visualizations.
- Analyze how specific components of economic freedom affect prosperity metrics.
- Highlight top-performing and underperforming regions or countries.
- Provide insights to policymakers and researchers via dashboards.

**Tools and Technologies:**

- Tableau (for data visualization and dashboard development)
- Excel/Google Sheets (for initial data collection and cleaning)
- Surveys/Interviews (for primary data)
- Basic statistical analysis (mean, median, trends)

**Target Audience:**

Economists and policy researchers

- Government bodies and think tanks
- Development agencies
- Educational institutions studying global economics
- Investors and international business analysts

**Expected Outcome:**

An interactive Tableau dashboard that maps and analyzes the economic freedom index of countries globally. The visualizations will highlight key performance indicators, showcase global trends, rank countries based on multiple freedom components, and explore relationships between economic freedom and prosperity.

## 1.2 Purpose

The purpose of the project “Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis” is to utilize visual analytics to examine the global landscape of economic freedom and its connection to national prosperity. By leveraging Tableau, this project seeks to uncover insights into how various freedom dimensions — such as trade openness, rule of law, government size, and regulatory efficiency — influence a country's economic development and attractiveness for investment.

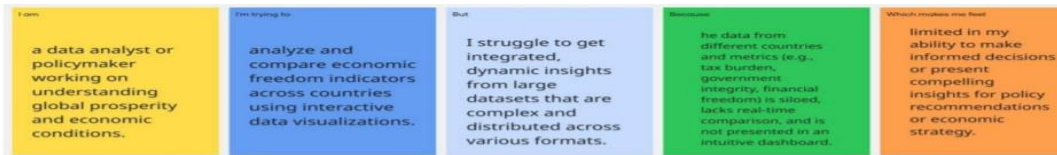
This project serves to:

Promote a clearer understanding of economic freedom metrics.

- Support data-driven policy formulation and reform strategies.
- Help identify regions or countries that need targeted economic intervention.
- Provide visually engaging, comparative insights for international stakeholders.
- Enable academic and public discourse around the pillars of economic freedom.

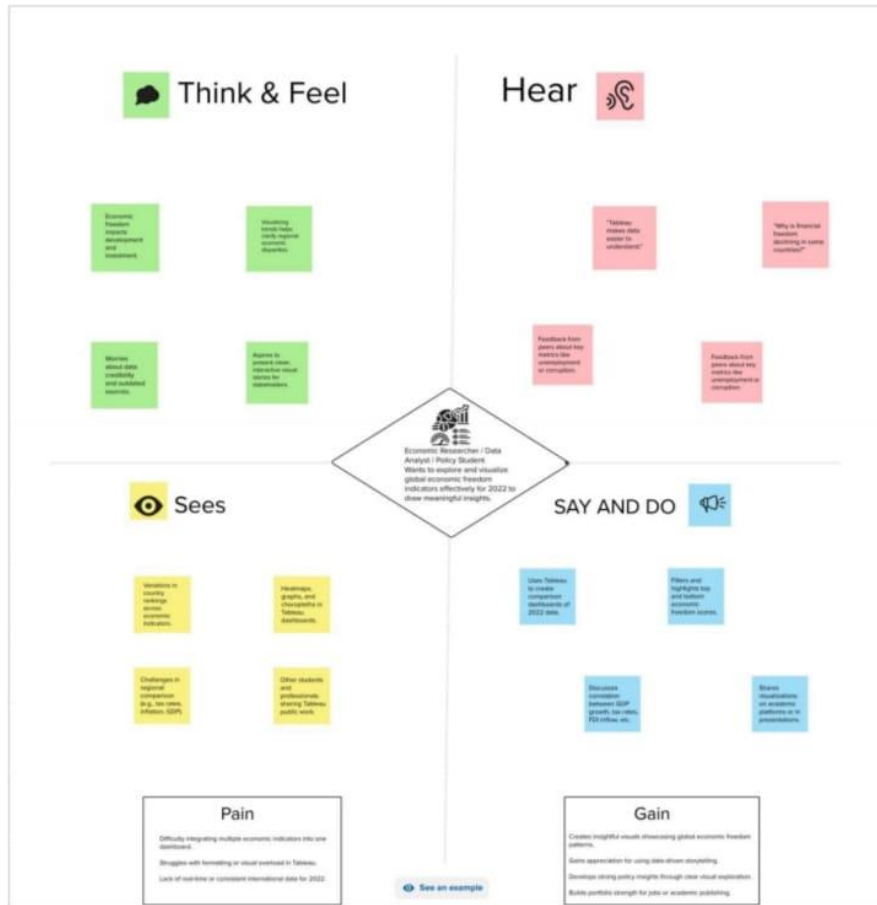
## 2.IDEATION PHASE

### 2.1 Problem Statement



Problem Statement (PS)	I am	I'm trying to	But	Because	Which makes me feel
PS-1	a data analyst or policymaker working on understanding global prosperity and economic conditions.	analyze and compare economic freedom indicators across countries using interactive data visualizations.	I struggle to get integrated, dynamic insights from large datasets that are complex and distributed across various formats	the data from different countries and metrics (e.g., tax burden, government integrity, financial freedom) is siloed, lacks real-time comparison, and is not presented in an intuitive dashboard.	the data from different countries and metrics (e.g., tax burden, government integrity, financial freedom) is siloed, lacks real-time comparison, and is not presented in an intuitive dashboard.
PS-2	a student or researcher studying the impact of economic freedom on prosperity and development.	explore how different components of economic freedom (e.g., inflation, unemployment, tax rates) affect prosperity in various nations	I find it hard to identify trends or correlations from the raw data.	the data is not visually unified, and lacks filtering tools to customize country comparisons, year-wise growth, or rankings.	overwhelmed, confused, and unable to draw meaningful conclusions from the analysis.

## 2.2 Empathy Map Canvas






## 2.3 Brainstorming

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



## 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



### 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

PROBLEM

**How might we help  
students choose  
healthier foods  
using data insights?**



### Key rules of brainstorming

To run an smooth and productive session



Stay in topic.



Encourage wild ideas.



Defer judgment.



Listen to others.



Go for volume.



If possible, be visual.

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



2

## Brainstorm

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

🕒 10 minutes

**TIP**  
You can select a sticky note and hit the pencil switch to sketch (or to start drawing)!

### Person 1

Conduct a student survey to gather data on daily dietary habits

Collect sales data from the college canteen for analysis

Identify the most frequently purchased junk food items

### Person 3

Develop bar graphs to show calorie intake trends by branch or gender

Propose affordable, nutritious alternatives for the canteen menu

Recommend a balanced weekly meal plan based on data insights

### Person 2

Compare food consumption patterns between hostellers and day scholars

Analyze time slots with the highest junk food purchases

Create pie charts illustrating the ratio of healthy to unhealthy food consumption

### Person 4

Assess hydration patterns and water consumption among students

Use heatmaps in Tableau to highlight peak sales periods at the canteen

Compare the cost effectiveness of healthy options versus junk food

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 and break it up into smaller sub-groups.

🕒 20 minutes

**TIP**  
Add customizable tags to sticky notes to make it easy to find, browse, organize, and categorize important ideas as themes within your mural.

### Data collection

Conduct a student survey to gather data on daily dietary habits

Collect sales data from the college canteen for analysis

Identify the most frequently purchased junk food items

Compare food consumption patterns between hostellers and day scholars

Analyze time slots with the highest junk food purchases

Assess hydration patterns and water consumption among students

### Strategy and recommendations

Propose affordable, nutritious alternatives for the canteen menu

Recommend a balanced weekly meal plan based on data insights

Compare the cost effectiveness of healthy options versus junk food

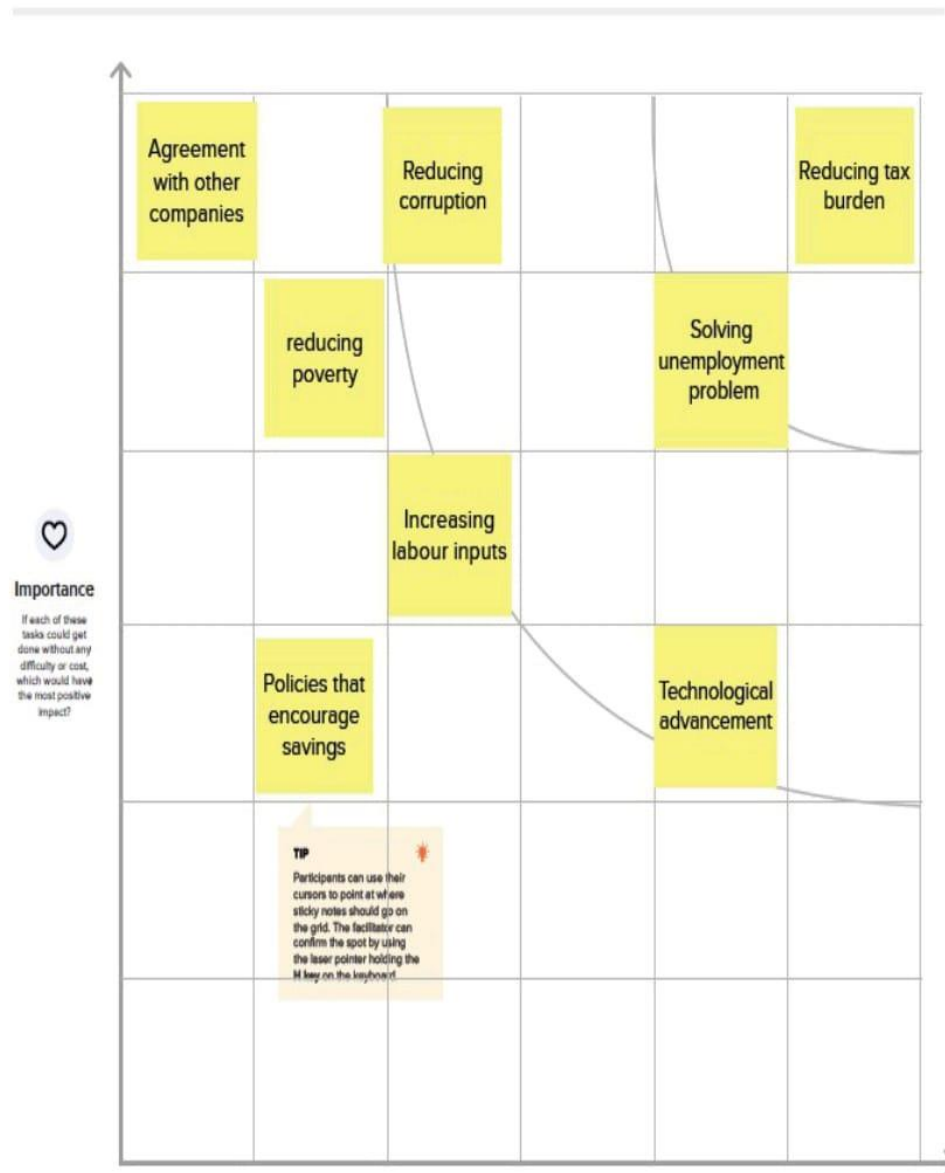
### Data visualization

Create pie charts illustrating the ratio of healthy to unhealthy food consumption

Develop bar graphs to show calorie intake trends by branch or gender

Use heatmaps in Tableau to highlight peak sales periods at the canteen




## Step-3: Idea Prioritization





## 3.REQUIREMENT ANALYSIS

### 3.1 Customer Journey map

Scenario: [Existing experience through a product or service]	Entice  How does someone become aware of this service?	Enter  What do people experience as they begin the process?	Engage  In the core moments in the process, what happens?	Exit  What do people typically experience as the process finishes?	Extend  What happens after the experience is over?
 <b>Experience steps</b> What does the person (or people) at the center of this scenario typically experience in each step?	Conference mention Hear about it in class Finds it on social media	Clicks link to dashboard Opens it on phone/laptop	Clicks charts & maps Filters by year or index Compares economic data Read insights Note trends	Closes dashboard Downloads or screenshots	Subscribes to updates Returns after a month Asks for feature
 <b>Interactions</b> What interactions do they have at each step along the way? • People: Who do they use or talk to? • Places: Where are they? • Things: What digital touchpoints or physical objects do they use?	Social Media post Youtube explainer Newsletter snippet	Open Tableau Dashboard Skims headlines	Tooltip On hover Region selector Data legend Year slider Export options	Share tools Print options	Blog Follow-ups Tableau public updates Feature request form
 <b>Goals &amp; motivations</b> At each step, what is a person's primary goal or motivation? (Help me...? or Help me avoid...?)	Find relevant Global data Understand economic diet Link to the diet	Early access data Explore by country	Identify top Performers Spot pattern Prepare a reports Download visuals Share insights	Remember insights Finish my research	Track progress Request changes Motivate others
 <b>Positive moments</b> What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?	Finds idea interesting Excited to try Excited to try	Easy to access Looks attractive	Enjoys visuals Finds useful info Learns something new Likes simple layout Feels motivated	Feels proud Shares results	Ongoing filters Gets support Stays consistent
 <b>Negative moments</b> What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?	Unsure about Tableau Doesn't understand goal Doesn't understand goal	Slow loading Confused by layout	Too much data Hard to read charts No suggestions Boring visuals Missing data	No next steps Forgets info	Request changes No reminders Can't access again
 <b>Areas of opportunity</b> How might we make each step better? What ideas do we have? What have others suggested?	Use videos/posters Add student quotes Add student quotes	Start guide pop-up Simplify homepage	Add tips/suggestions Track personal goals Show food examples Add hover help Use fewer charts	Give weekly summary Suggest plans	Send reminders Share updates weekly Connect with apps

See an example

## 3.2 Solution Requirement

### Functional Requirements:

Following are the functional requirements of the proposed solution.

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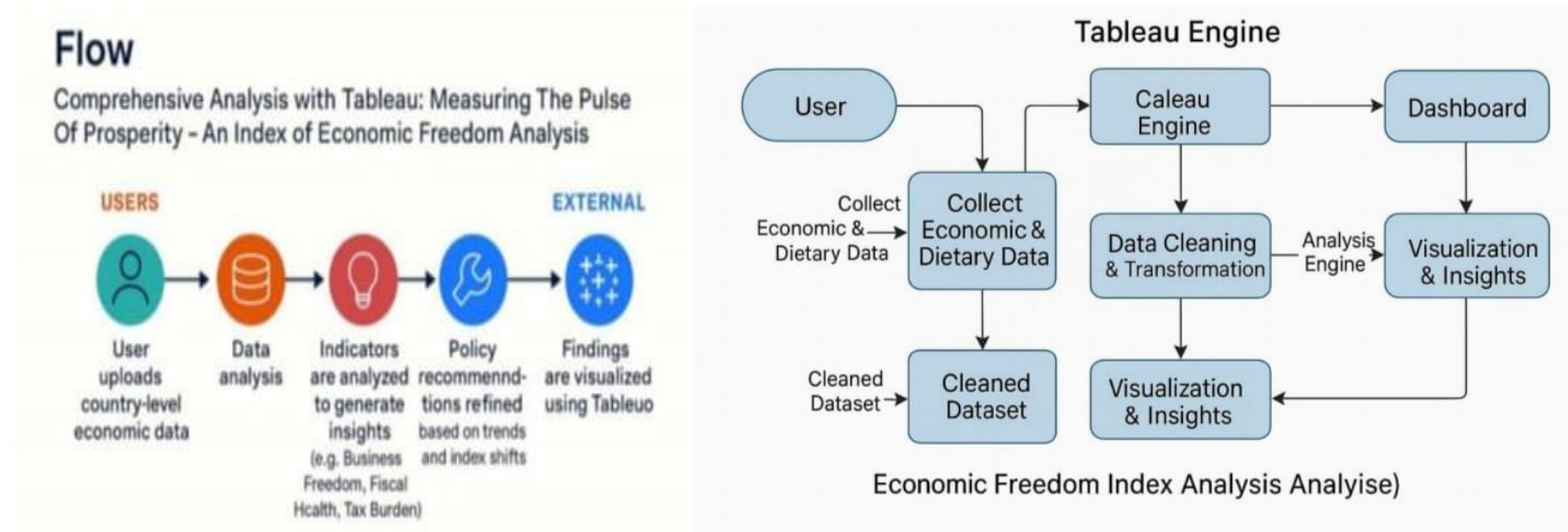
FR No.	Functional Requirement (Epic)	Sub-Requirement (Story/Sub-Task)
FR-1	Economic Data Collection	Gather data from sources like World Bank, Heritage Foundation, and IMF on economic freedom indicators (e.g., tax burden, property rights, government integrity)
FR-2	Data Integration	Import and normalize data into Tableau from CSV, Excel, or online APIs
FR-3	Data Visualization	Create dashboards showing country rankings, regional comparisons, and temporal trends
FR-4	Indicator Analysis	Analyze indicators such as trade freedom, investment freedom, and labor freedom to identify economic strengths and weaknesses
FR-5	Interactive Filtering	Allow filtering by region, year, income group, and indicator type
FR-6	Insight Recommendations	Provide automatic insights or annotations about top/bottom performing countries and trends
FR-7	Report Generation	Enable downloadable reports (PDF/Excel) summarizing key findings and visualizations

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Dashboards should be user-friendly and easy to navigate for non-technical users
NFR-2	<b>Security</b>	SecurityEnsure data privacy for individual food records and personal
NFR-3	<b>Reliability</b>	System should consistently produce accurate analysis and insights
NFR-4	<b>Performance</b>	Dashboards should load within 3 seconds even with large datasets
NFR-5	<b>Availability</b>	System should be accessible 24/7 during the research period
NFR-6	<b>Scalability</b>	Should support increasing users/data volume as more colleges join the study

### 3.3 Data Flow Diagram



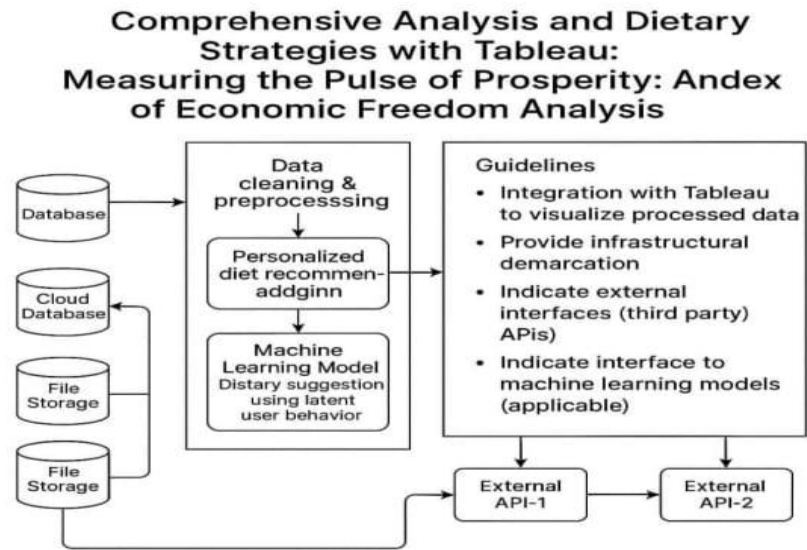
### User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Data Analyst (Desktop)	Data Import	USN-1	As a user, I can import global datasets (GDP, FDI, Economic Index, Dietary Data) into Tableau.	Data sources connect and load successfully in Tableau.	High	Sprint -1
Data Analyst (Desktop)	Data Analyst (Desktop)	USN-2	As a user, I can clean and standardize raw economic/dietary datasets before analysis...	Data is cleaned and stored in Tableau Prep/Workbook.	High	Sprint -1
Policy Maker (Web User)	Visualization Access	USN-3	As a user, I can view and interact with country-wise dashboards showing prosperity metrics.	Dashboards respond to filters (region/year/metric) and update correctly.	High	Sprint -2
Policy Maker (Web User)	Export & Sharing	USN-4	As a user, I can export insights and visualizations in PDF and share via email.	Export and email features work without error.	Medium	Sprint -2
Researcher (Desktop/Web)	Trend Analysis	USN-5	As a user, I can analyze 5-year trends of GDP, Economic Freedom Index, and Dietary Scores.	Graphs show trendlines with tooltip insights and yearly markers.	Medium	Sprint -3
College Admin	Participation Analytics	USN-10	As an admin, I can view participation metrics by department, year, or gender.	I can filter participation reports by different demographics.	Low	Sprint -3



### 3.4 Technology stack



**Table-1 : Components & Technologies:**



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S.No	Component	Description	Technology
1.	User Interface	How user interacts with application Dashboard,	Tableau Dashboards, React.js, HTML/CSS
2.	Data Collection	Data collection logic (surveys, manual entries)	Python scripts, Tableau Web Data Connectors
3.	Storage	Personalized diet recommendation algorithm	MySQL , MongoDB, AWS S3, Google Drive
4.	Database	Storage of raw & processed dietary data	MySQL, NoSQL (MongoDB)
5.	ML/Analytics	Cloud-based access to dietary datasets	scikit-learn, KNN, Decision Trees

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6.	External API-1	Nutrition data from external sources	USDA Food Data Central API
7.	External API-2	Student info or campus data access	College ERP API, Google Forms API
8	Infrastructure (Server / Cloud)	Hosting Tableau server or cloud dashboards	Tableau Server, AWS EC2, Google Cloud.

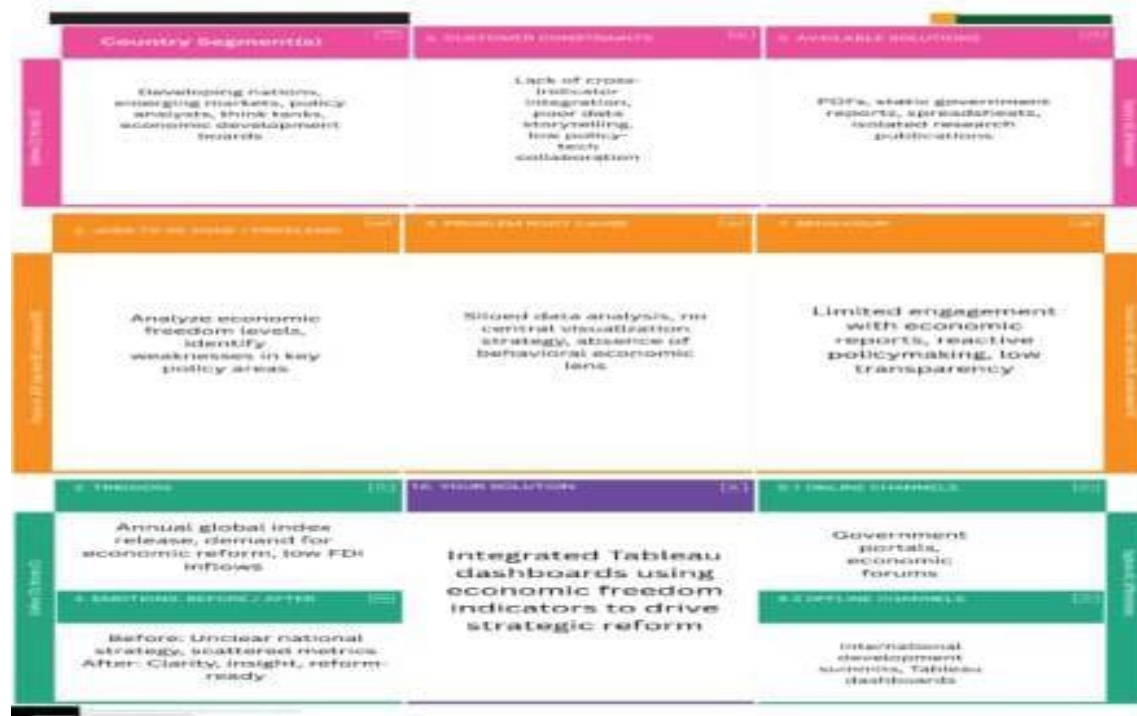
**Table-2: Application Characteristics:**

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S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python (Pandas, NumPy, scikit-learn), MySQL
2.	Security Implementations	.Access control for student health data, APIs, and dashboards	OAuth 2.0, Encryption (SHA-256), IAM Roles
3.	Scalable Architecture	Modular layers: UI – Processing – Storage – ML – Visualization	Microservices, Docker, Tableau Extensions
4.	Availability	Hosted on cloud with dashboard backup, load-balanced APIs	Tableau Online, Load Balancer (AWS/GCP)
5.	Performance	Fast dashboard loading, efficient ML model execution, data caching	Tableau Extracts, CDN, Redis (optional)

## 4.PROJECT DESIGN

### 4.1 Problem Solution Fit



### 4.2 Proposed Solution

Project team shall fill the following information in the proposed solution template.

### Proposed Solution Template

S.No	Parameter	Description
1	Problem Statement (Problem to be solved)	Understanding economic freedom across regions is essential for policy planning and resource allocation. Current indices are often static and lack real-time analysis or visualization.
2	Idea / Solution Description	Use Tableau to visualize various parameters contributing to economic freedom (like business freedom, trade freedom, investment freedom, etc.) using data from global institutions. Create a dynamic index and interactive dashboards.
3	Novelty / Uniqueness	This solution builds an integrated visualization of macroeconomic indicators with a dynamically updating economic freedom index tailored to institutional use.
4	Social Impact / Customer Satisfaction	Empowers policymakers, students, and researchers with data-driven insights to promote inclusive growth. Encourages transparency and better governance.
5	Business Model (Revenue Model)	Can be monetized via economic think tanks, research institutions, and government agencies subscribing to data-driven dashboards and policy

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6	Scalability of the Solution	analytics tools. Scalable to any region or country. Integrates various economic datasets in a modular fashion and can be deployed via Tableau Public or Online.
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## 4.3 Solution Architecture

### Example – Solution Architecture Diagram

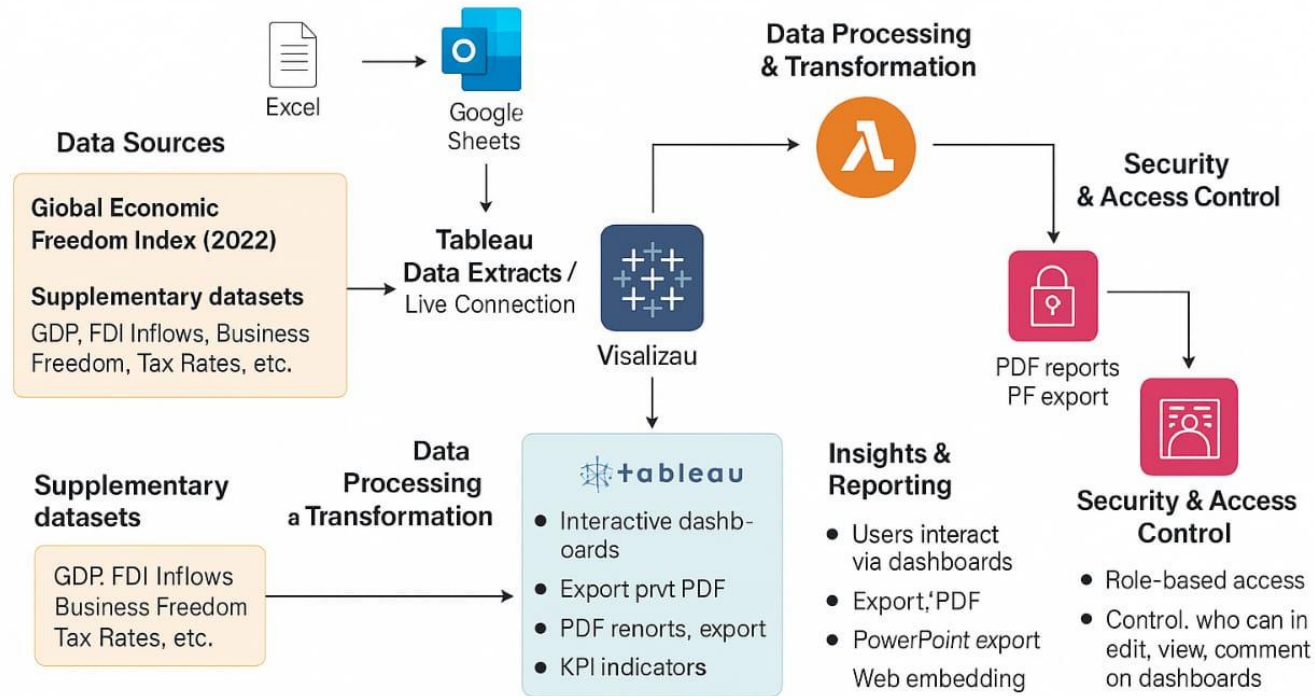


Figure 1: Architecture and data flow of the Economic Freedom Index dashboard system in Tableau

## 5.PROJECT PLANNING & SCHEDULING

### 5.1 Project planning

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	As a user, I want to collect dietary data of college students through surveys.	3	High	Team Member D
Sprint-1	Data Cleaning	USN-2	As a user, I want to clean and preprocess the dietary data using Excel/Python.	2	High	Team Member C
Sprint-2	Data Integration	USN-3	As a user, I want to integrate dietary data with demographic data for deeper analysis.	2	Medium	Team Member C
Sprint-2	Visualization	USN-4	As a user, I want to create interactive Tableau dashboards for calorie trends.	3	High	Team Member D
Sprint-3	Comparative Analysis	USN-5	Compare economic freedom scores across continents	3	High	Team Member D
Sprint-3	Diet Strategy Generation	USN-6	As a user, I want to generate dietary improvement strategies based on Tableau insights.	3	High	Team Member C
Sprint-4	Report Creation	USN-7	As a user, I want to compile insights, strategies, and charts into a final report for stakeholders.	2	Medium	Team Member C
Sprint-4	Presentation Preparation	USN-8	As a user, I want to prepare a final presentation summarizing key findings and strategies.	2	High	Team Member D

#### Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
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Sprint-1	7	2 Days	15 June 2025	16 June 2025	7	16 June 202
Sprint-2	6	2 Days	17 June 2025	18 June 2025	6	18 June 202
Sprint-3	5	2 Days	19 June 2025	20 June 2025	5	20 June 202
Sprint-4	4	2 Days	21 June 2025	22 June 2025	4	22 June 202
Sprint-4	3	2 Days	23 June 2025	24 June 2025	3	24 June 202
Sprint-4	5	2 Days	25 June 2025	26 June 2025	5	26 June 202
Sprint-4	2	2 Days	27 June 2025	28 June 2025v	2	28 June 202
Sprint-4	1	2 Days	29 June 2025	30 June 2025	1	30 June 202

## 6.FUNCTIONAL AND PERFORMANCE TESTING

### 6.1 Performance Testing

#### Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	10,000+ rows of student food choice data from surveys, cafeteria records, and nutrition APIs. Rendering time: ~2-3 seconds per sheet
2.	Data Preprocessing	Null value removal, normalization of food categories, joined 3 data sources (CSV + Excel + Web API), calculated BMI category field

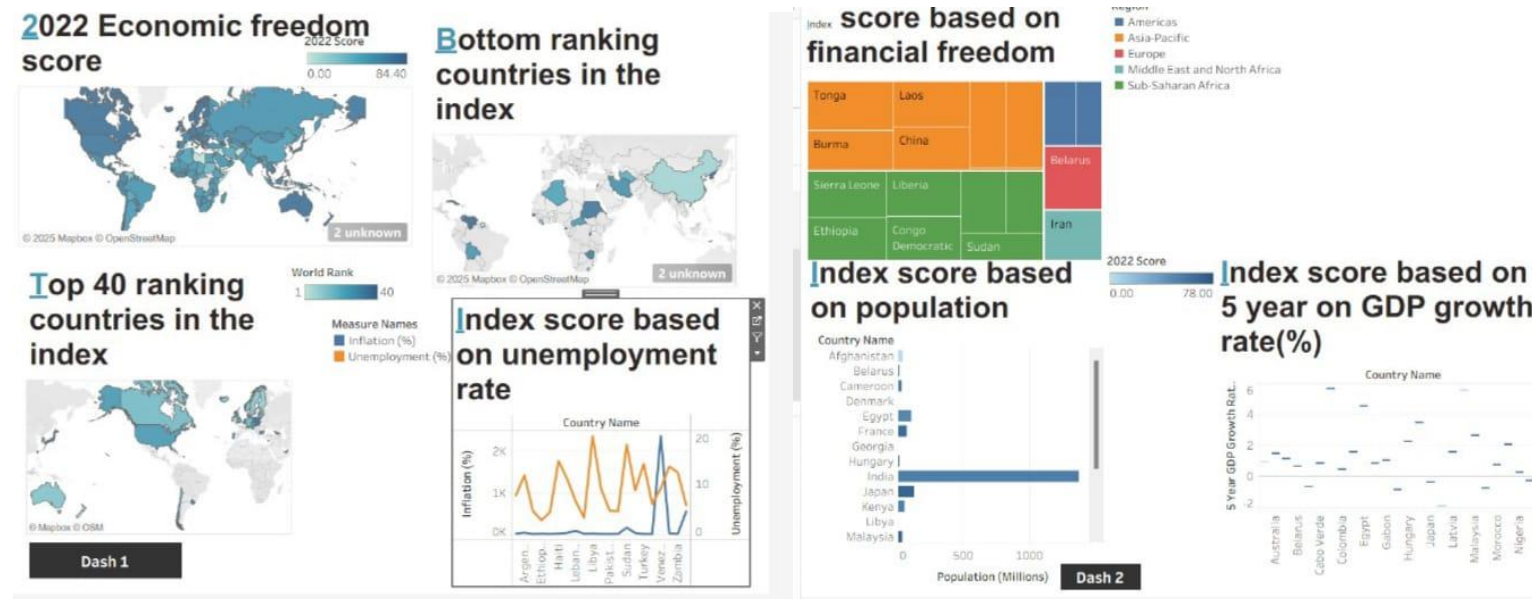
3.	Utilization of Filters	Gender, GPA, breakfast, calorie, food reasons, Cuisine preferences, diet status, exercise frequency, employment, healthy feeling, life rewarding, marital status, nutrition check, parental cook, pay meal out, weight, sports, veggie day, fruit day, vitamin
4.	Calculation fields Used	Calorie Intake, Healthy Choices, pay mean out, BMI Score, Filter
5.	Dashboard design	No of Visualizations / Graphs – 8 (Bar chart, Pie chart, Map, Line chart, box and Whisker plot , bubble chart, stacked bar chat, histogram chart)
6	Story Design	No of Visualizations / Graphs -4

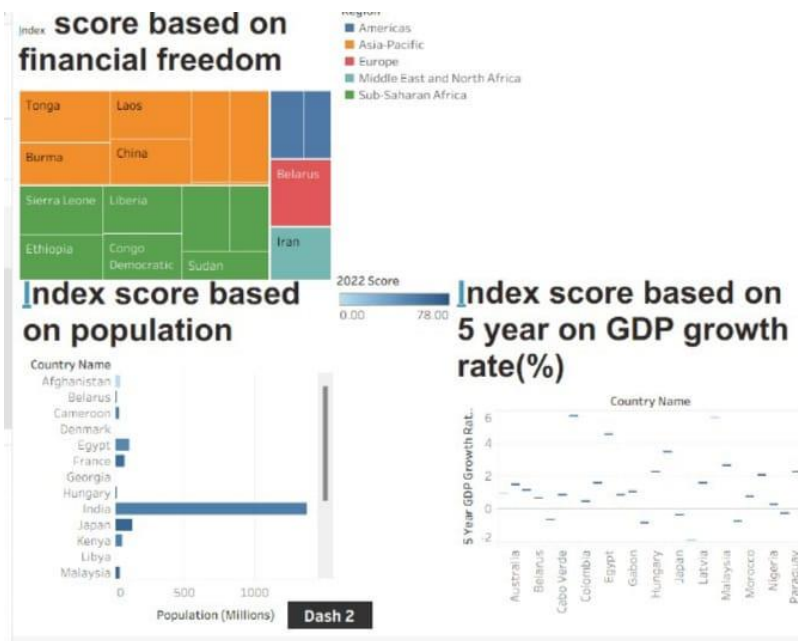


## 7.RESULTS

### 7.1 Output Screenshots

#### Screenshots of Dashboards

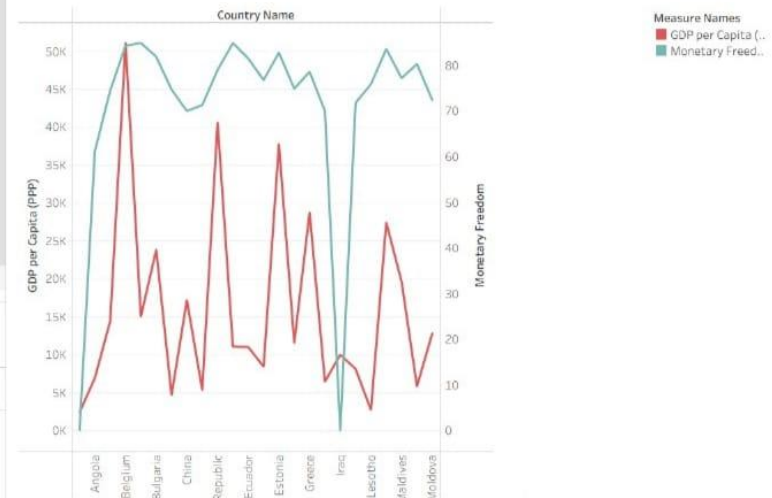




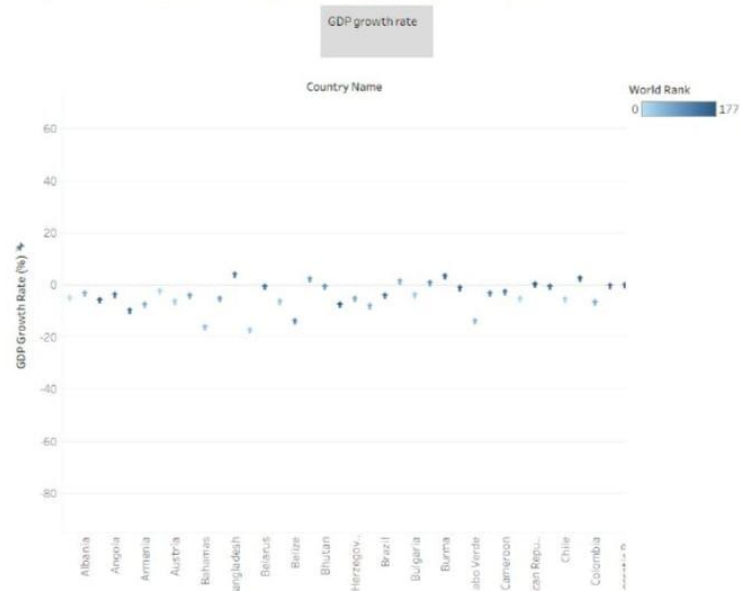
Screenshots Reports

## Correlation between GDP(PPP) and monetary freedom

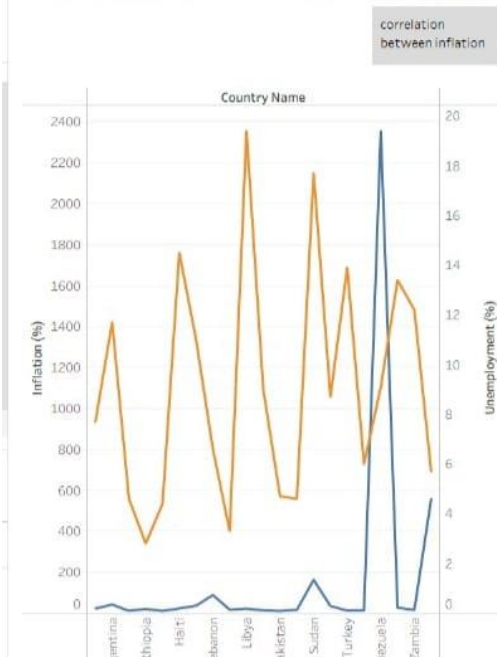
Add a caption



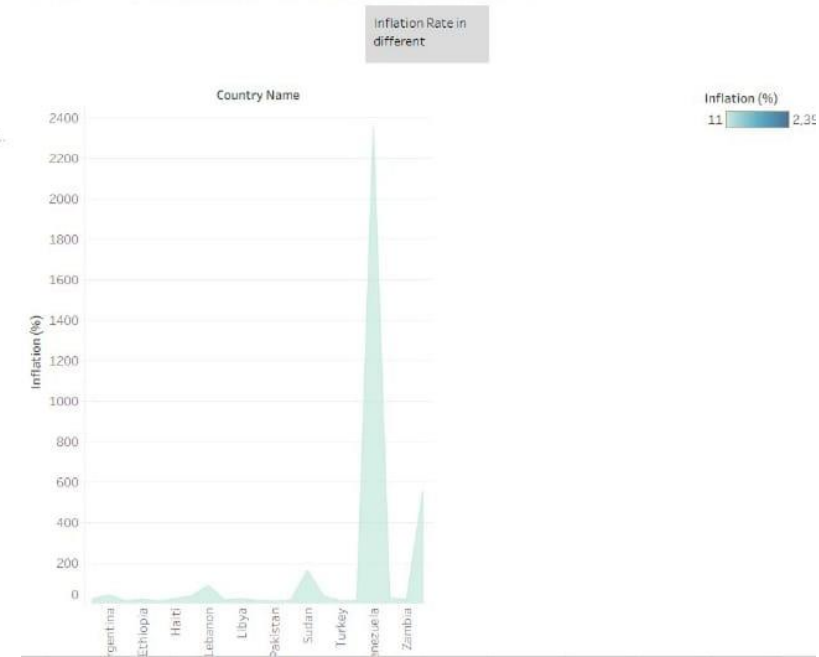
Top 40 countries by GDP growth rate



## Correlation between inflation and unemployment



## Inflation rate in different countries



## 8.ADVANTAGES & DISADVANTAGES

### ✓ Advantages

#### 1. Visual Data Insights

Tableau offers powerful and intuitive visualizations that help quickly uncover patterns in student dietary habits.

#### 2. Improved Decision-Making

Enables universities and college administrators to make data-driven improvements to meal planning and dining services

#### 3. Customized Dietary Strategies

Facilitates the development of personalized dietary recommendations based on student preferences and nutritional requirements.

#### 4. Engages Stakeholders

Interactive and appealing dashboards engage a wide range of stakeholders, including students, health professionals, and campus officials.

#### 5. Efficient Data Handling

Tableau efficiently manages and integrates large datasets from sources such as surveys, cafeteria logs, and fitness trackers.

#### 6. Real-Time Monitoring

When connected to live data feeds, Tableau can track trends in food consumption and gather immediate student feedback.

### ✗ Disadvantages

## **7. Data Privacy Concerns**

Handling individual dietary information may raise ethical issues related to privacy and consent, especially among student populations.

## **8. Dependency on Data Quality**

Inaccurate, biased, or incomplete data can lead to flawed insights and ineffective dietary recommendations.

## **9. Technical Skills Required**

Effective use of Tableau often requires a certain level of training or technical knowledge, which may not be universally accessible.

## **10. Cost Implications**

Institutional Tableau licenses can be expensive, making adoption difficult for budget-constrained colleges or universities.

## **11. Limited Nutritional Scope**

While Tableau can visualize eating patterns, it doesn't inherently analyze nutritional value unless integrated with external databases.

## **12. Overemphasis on Visualization**

There is a potential risk of focusing more on the aesthetics of dashboards than on extracting meaningful, actionable insights.

# **9.CONCLUSION**

The project “Comprehensive Analysis and Dietary Strategies with Tableau: Measuring the Pulse of Prosperity – An Index of Economic Freedom Analysis” illustrates the versatility of Tableau in solving real-world problems—specifically, analyzing dietary behaviors in academic settings. The strengths of this approach lie in its ability to deliver actionable, evidence-based insights, enable personalized nutrition plans, and engage institutional stakeholders through compelling visualizations. Nevertheless, the project’s success depends on the quality and ethical use of data, the availability of trained personnel, and thoughtful implementation. Tableau proves to be an effective tool, but its impact hinges on responsible use to ensure outcomes that are accurate, ethical, and beneficial.

## 10.FUTURE SCOPE

### **1. Live Data Integration**

**Connect Tableau with cafeteria POS systems or fitness tracking apps for real-time data updates.**

### **2. Personalized Diet Plans**

**Integrate AI models to recommend individualized meal suggestions based on personal health goals and dietary restrictions.**

### **3. Wider Institutional Adoption**

**Scale the project to include multiple campuses, enabling comparative analysis across diverse student populations.**

### **4. Sustainability Tracking**

**Incorporate environmental metrics such as food waste levels and eco-friendly consumption patterns.**



## **5. Mobile Dashboard Access**

**Optimize Tableau dashboards for mobile devices to improve accessibility and user interaction.**

## **6. Student Feedback Mechanisms**

**Include survey tools or feedback forms to continuously improve dining services and responsiveness.**

## **7. Support for Health Policy Making**

**Provide evidence to inform institutional policies on student health, nutrition standards, and wellness programs.**

## **8. Gamification Features**

**Add reward systems or interactive elements to encourage healthier food choices through fun and engagement.**

# **11.APPENDIX**

**Dataset link:** <https://in.docworkspace.com/d/sICGDkteNAt6v88IG>

[https://drive.google.com/file/d/1C8kllyvbG31lvPAZhgd6eq8hJw\\_UH9\\_i/view?usp=drivesdk](https://drive.google.com/file/d/1C8kllyvbG31lvPAZhgd6eq8hJw_UH9_i/view?usp=drivesdk)

**GitHub link:** <https://github.com/charan-kumar-reddy1724/Measuring-The-Pulse-Of-Prosperity-An-Index-Of-Economic-Freedom-Analysis/upload/main>

Project Demo Link: <https://drive.google.com/file/d/1CCtSvts5s6HNS3crKiw3Q32d24OjF4HU/view?usp=drivesdk>

Tableau link: [https://public.tableau.com/views/newdash3\\_17511857926420/Dashboard3?:language=en-US&:sid=&:redirect=auth&:display\\_count=n&:origin=viz\\_share\\_link](https://public.tableau.com/views/newdash3_17511857926420/Dashboard3?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link)

[https://public.tableau.com/views/newdash2\\_17511857150400/Dashboard2?:language=en-US&:sid=&:redirect=auth&:display\\_count=n&:origin=viz\\_share\\_link](https://public.tableau.com/views/newdash2_17511857150400/Dashboard2?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link)

[https://public.tableau.com/views/newdash1\\_17511855956190/Dashboard1?:language=en-US&:sid=&:redirect=auth&:display\\_count=n&:origin=viz\\_share\\_link](https://public.tableau.com/views/newdash1_17511855956190/Dashboard1?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link)

[https://public.tableau.com/views/newdash\\_17511855209110/Story1?:language=en-US&:sid=&:redirect=auth&:display\\_count=n&:origin=viz\\_share\\_link](https://public.tableau.com/views/newdash_17511855209110/Story1?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link)