Project Design Phase
Solution Architecture

Date	28 July, 2025
Team ID	LTVIP2025TMID49302
Project Name	Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis
Maximum Marks	4 Marks

What Is Solution Architecture?

Solution architecture defines how a system meets business goals using technology. For this project, it bridges the gap between raw economic data and the user-centric storytelling experience delivered via Tableau. It lays out the structural blueprint for interactive dashboards, filters, calculations, and AI-enhanced summaries.

Objectives

- Identify the best technical approach for communicating economic freedom data
- Describe the dashboard structure, features, and behaviour
- Define development phases and visualization requirements
- Provide a specification that ensures clarity and scalability

Architecture & Data Flow Diagram

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📁 **Raw Dataset**
(2022 Index - CSV)

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📊 **Data Preprocessor**
Python (Pandas)
– Null Handling
– Normalization
– Derived Metrics

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📦 **Clean Dataset**
(CSV/JSON Output)

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🧠 **Tableau Visualizzation Layer**
– 11 Charts + Dashboard
– Story Points
– FIlters: Region, Income
– Tooltips, Hover Captions

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🧠 **Optional          🌐 **Tableau Public
AI Module**              / GitHub Pages**
– LLM Summary Cards    ◄──►  – Hosting & Embedding
– Sentiment Scoring

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👥 **End Users**
Analvsts | Students
Citizens
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