Project Design Phase-II
Data Flow Diagram & User Stories

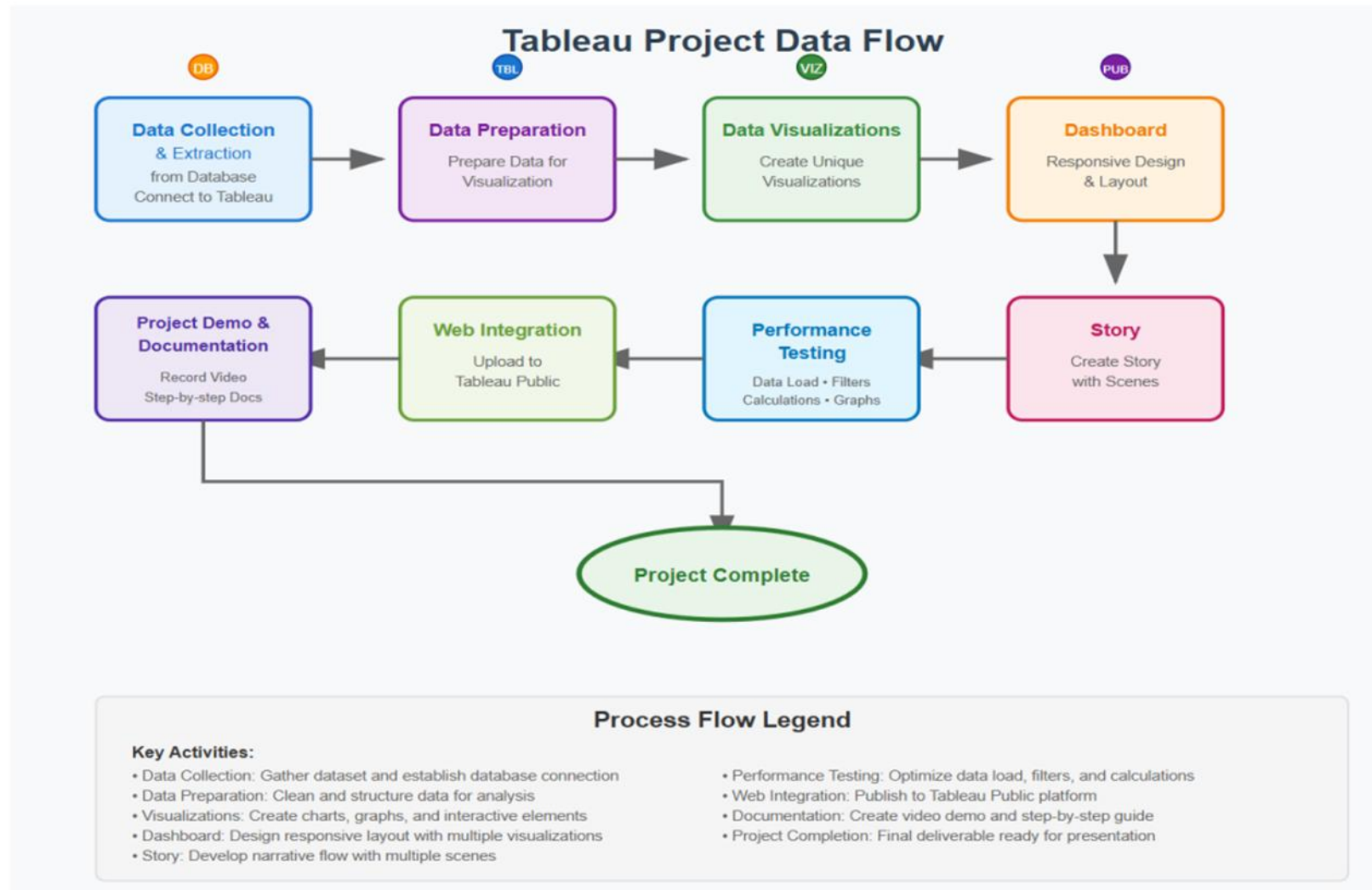| Date	27 June 2025
Team ID	LTVIP2025TMID37895
Project Name	Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example: (Simplified)

Flow Integration & Dependencies Sequential Dependencies:

 1. **Data Collection must be completed before Data Preparation**

 2. **Data Preparation enables effective Data Visualizations**

3. **Visualizations form the foundation for Dashboard Creation**

4. **Dashboards provide content for Story Development**

5. **Performance Testing runs parallel to all development phases**

6. **Web Integration requires completed dashboards and stories**

7. **Documentation captures the entire development proc**

Data Flow Diagram :

Tableau Project Data Flow

DB

Data Collection
& Extraction
from Database
Connect to Tableau

→

TBL

Data Preparation
Prepare Data for
Visualization

→

VIZ

Data Visualizations
Create Unique
Visualizations

→

PUB

Dashboard
Responsive Design
& Layout

↓

**Project Demo &
Documentation**
Record Video
Step-by-step Docs

←

Web Integration
Upload to
Tableau Public

←

**Performance
Testing**
Data Load • Filters
Calculations • Graphs

←

Story
Create Story
with Scenes

Project Complete

Process Flow Legend

Key Activities:

- Data Collection: Gather dataset and establish database connection
- Data Preparation: Clean and structure data for analysis
- Visualizations: Create charts, graphs, and interactive elements
- Dashboard: Design responsive layout with multiple visualizations
- Story: Develop narrative flow with multiple scenes

- Performance Testing: Optimize data load, filters, and calculations
- Web Integration: Publish to Tableau Public platform
- Documentation: Create video demo and step-by-step guide
- Project Completion: Final deliverable ready for presentation

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	Data Import & Processing	USN-1	As a data analyst, I can import Economic Freedom Index data from multiple sources (Heritage Foundation, World Bank, etc.) into MySQL database	I can successfully load data with proper validation and error handling	High	Sprint-1
Data Analyst	Data Import & Processing	USN-2	As a data analyst, I can clean and standardize country names, economic indicators, and time series data	Data is consistent across all sources with standardized formats	High	Sprint-1
Data Analyst	Data Import & Processing	USN-3	As a data analyst, I can create normalized database schema for economic freedom metrics	Database supports efficient queries and maintains data integrity	Medium	Sprint-1
Data Analyst	Exploratory Data Analysis	USN-4	As a data analyst, I can perform statistical analysis on the 12 economic freedom factors	I can identify correlations, trends, and outliers in the data	High	Sprint-2
Data Analyst	Exploratory Data Analysis	USN-5	As a data analyst, I can analyze historical trends of economic freedom across different countries and regions	I can generate insights about economic freedom evolution over time	High	Sprint-2
Data Analyst	Exploratory Data Analysis	USN-6	As a data analyst, I can compare economic freedom scores across the four pillars (Rule of Law, Government Size, Regulatory Efficiency, Open Markets)	I can identify which pillars contribute most to overall economic freedom	Medium	Sprint-2
Business Analyst	Dashboard & Visualization	USN-7	As a business analyst, I can create interactive Tableau dashboards showing global economic freedom rankings	I can view and filter countries by various economic freedom metrics	High	Sprint-2
Business Analyst	Dashboard & Visualization	USN-8	As a business analyst, I can visualize economic freedom trends using time series charts and heat maps	I can identify patterns and changes in economic freedom over time	High	Sprint-3
Business Analyst	Dashboard & Visualization	USN-9	As a business analyst, I can create comparative analysis dashboards for regional economic freedom performance	I can compare regions and identify best/worst performing areas	Medium	Sprint-3
Business Analyst	Dashboard & Visualization	USN-10	As a business analyst, I can generate correlation analysis visualizations between economic freedom and prosperity indicators	I can demonstrate relationships between freedom and economic outcomes	Medium	Sprint-3

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Policy Researcher	Advanced Analytics	USN-11	As a policy researcher, I can analyze the relationship between economic freedom scores and GDP per capita	I can quantify the impact of economic freedom on prosperity	High	Sprint-3
Policy Researcher	Advanced Analytics	USN-12	As a policy researcher, I can identify countries with significant changes in economic freedom rankings	I can study policy changes that led to improvements or deteriorations	Medium	Sprint-4