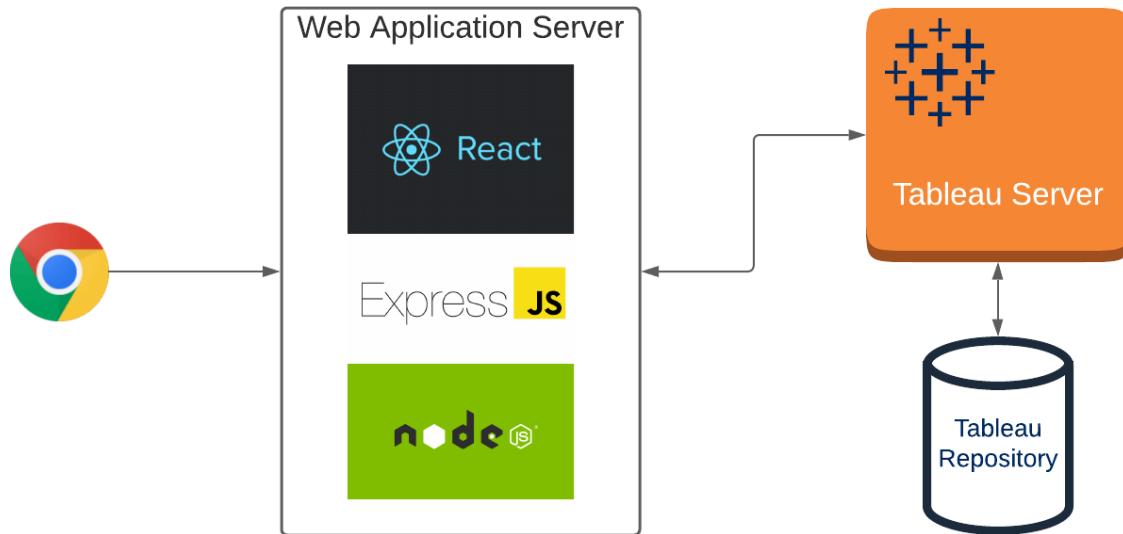


Project Design Phase-I Data Flow Diagram & User Stories

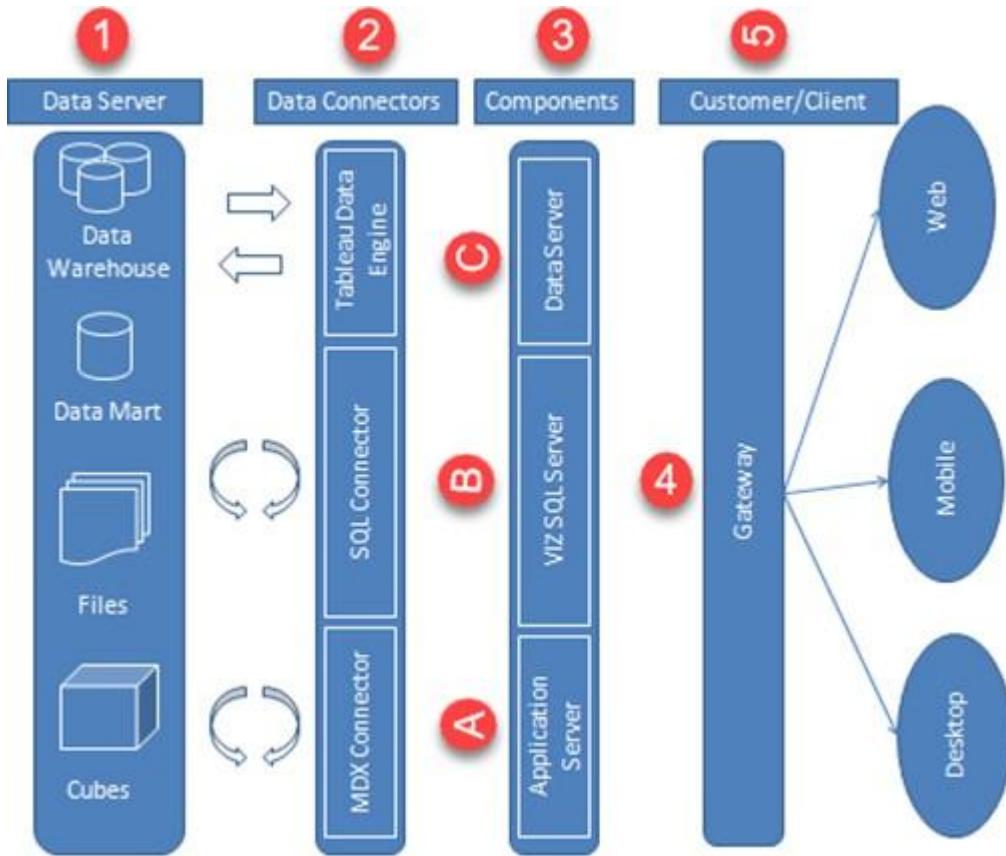
Date	17 JULY 2025
Team ID	PNT2025TMID11128
Project Name	Measuring the Pulse of Prosperity

Data Flow Diagrams:

■ Data Flow Diagram (DFD)



A **Data Flow Diagram (DFD)** graphically represents how data moves through the system—inputs, outputs, stores, and processes. It helps clarify system boundaries and data handling requirements. Suggested DFD structure (Level 0 and Level 1 layers):



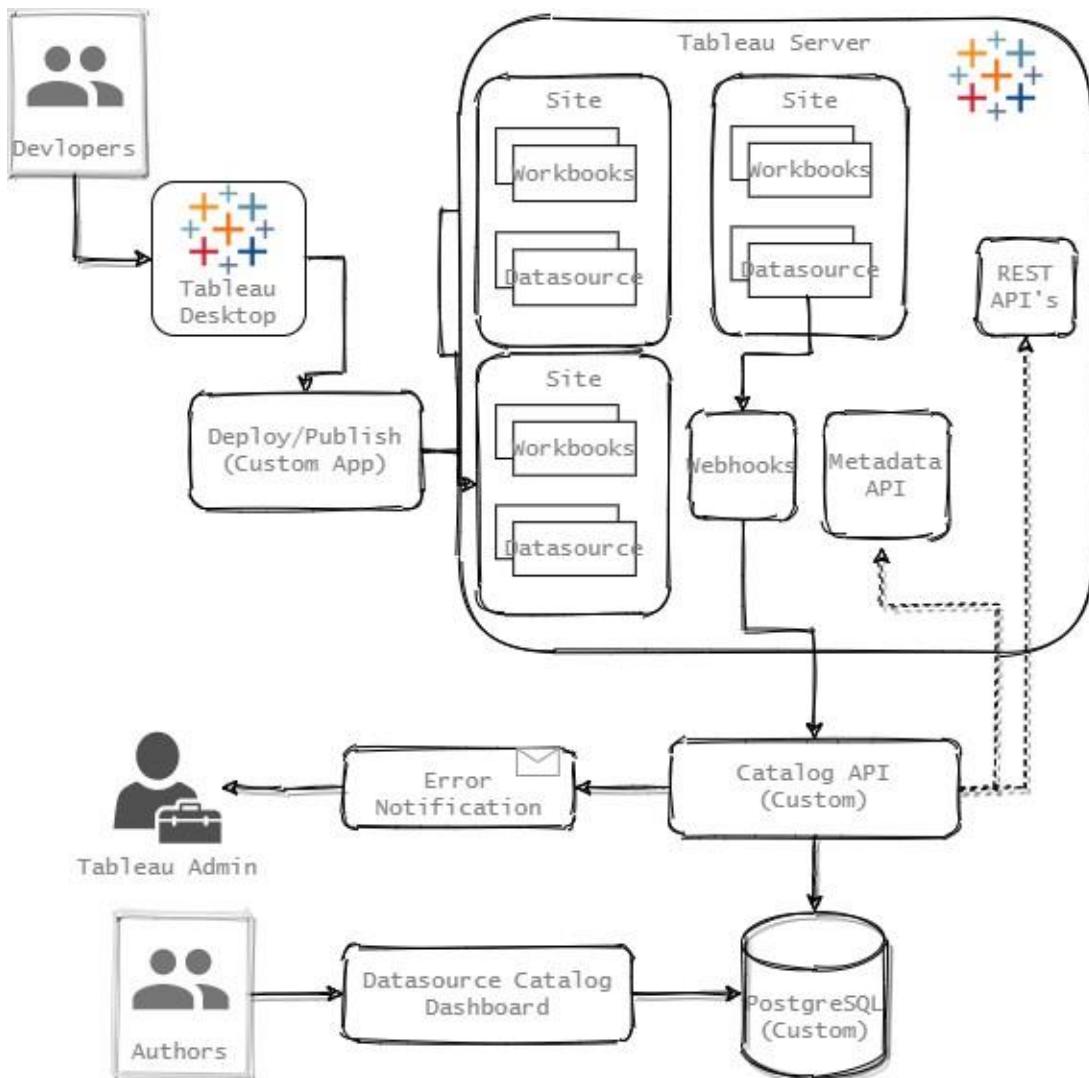
Context (Level 0)

scss

CopyEdit

[User] → (Web Interface) → [Web App + Tableau Embedding/API] → [Tableau Public/Server]

Data flows back via embedded visualizations to the user.



Level 1 Process Breakdown

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(User)

↓

[1. Input Filters: Country, Year, Pillar] →

[2. Embedding API] →

[3. Dashboard Render] →

[4. Data Fetch from Tableau Public]

←

[Tableau Public] ← [Published Dashboards from Tableau Desktop] ← [SQL Dataset]

Include data stores:

- **DS1:** SQL/CSV dataset
- **DS2:** Tableau Dashboard files

And external entities:

- **E1: Policymaker**
- **E2: Investor**

I recommend drawing this in a diagram tool, labeling processes (e.g. P1, P2), arrows, and stores. A clean DFD aids stakeholder understanding [e](#)

User Stories

Below are user stories capturing core feature needs for both web and Tableau users, with acceptance criteria and sprint assignments:

User Type	Epic	USN	User Story	Acceptance Criteria	Priority	Release
Web User	Dashboard Interaction	USN-1	As a user, I can apply country/year/pillar filters so that I see tailored visual insights	Filters apply correctly; charts update dynamically	High	Sprint-1
Web User	Dashboard Viewing	USN-2	As a user, I can view interactive dashboards embedded in the page	Dashboards load with toolbar and interactivity	High	Sprint-1
Web User	Dashboard Sharing	USN-3	As a user, I can access the application hosted via GitHub Pages	Site accessible via public URL	Medium	Sprint-1
Investor User	Time-Trend Analysis	USN-4	As an investor, I can view country time-series charts so that I can analyze improvements over time	Line charts load data by year; users can compare multiple countries	High	Sprint-2
Policy Researcher	Pillar Comparison	USN-5	As a policymaker, I can compare pillar scores across countries	A bar chart displays multiple countries per pillar for comparisons	High	Sprint-2
Analyst	Data Export	USN-6	As an analyst, I can export snapshot views as PDF for offline analysis	Export button downloads a PDF snapshot of current dashboard view	Medium	Sprint-3

