

Project Design Phase-I

Solution Architecture

Date	12 September 2023
Team ID	SPS_APL_20230591261
Project Name	Graphical Advantages : A Tableau Exploration of Top Manga
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture for this project serves several key functions:

Data Collection and Aggregation: It collects and consolidates data from multiple sources, including historical manga sales data and associated metadata, to create a comprehensive dataset.

Data Storage: The architecture efficiently stores the consolidated manga data in a data warehouse, organized and structured for analysis and visualization.

Data Analysis: It performs exploratory data analysis to identify trends, patterns, and insights related to manga sales and factors like genre, author, and publication date.

Data Visualization: The architecture uses Tableau to create interactive and engaging visualizations, making data insights clear and easily accessible to different target audiences.

User Interface: It provides a user-friendly web interface for users to access and interact with the visualizations, ensuring an engaging and informative user experience.

Security and Privacy: The architecture implements robust security measures, including user authentication and data encryption, to protect user data and maintain privacy compliance.

Deployment and Dissemination: It deploys the visualizations on Tableau Server, making them accessible to users and integrating them into various platforms and communication channels for widespread dissemination.

Monitoring and Maintenance: The architecture continuously monitors the performance of data-related components, ensures data freshness through scheduled refreshes, and automates data synchronization to keep the information up to date and maintain optimal system performance.

In summary, the solution architecture collects, stores, analyzes, visualizes, and securely shares manga data, providing stakeholders with valuable insights and a user-friendly platform to explore and understand the best-selling mangas over time. It also maintains data integrity and ensures data security and privacy compliance.

Solution Architecture Diagram

