Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	22/06/2025
Team ID	LTVIP2025TMID48315
Project Name	Heritage Treasures: An In-Depth Analysis of UNESCO World Heritage Sites in Tableau
Maximum Marks	4 Marks

Technology Stack

1. Data Source Layer:

Component Technologies/Tools Used

- UNESCO World Heritage Sites dataset (CSV / Excel / API) **Data Source** - External sources (e.g., country info, population data for enrichment)

🙀 2. Data Visualization Layer

Component **Technologies/Tools Used**

- Tableau Desktop for design

Dashboard Tool - Tableau Public or Tableau Server for

publishing/sharing

- Interactive filters (region, country, type, year)

- World map (using Geo features) **Features**

- Bar and line charts, highlight tables

🚺 3. Data Visualization Layer

Technologies/Tools Used Component

- Tableau Desktop for design
Dashboard Tool
- Tableau Public or Tableau Server for publishing/sharing

Component Technologies/Tools Used

- Interactive filters (region, country, type, year)

Features - World map (using Geo features)

- Bar and line charts, highlight tables

4. Security & Access Control (If Hosted Privately)

Component Technologies/Tools Used

Authentication Tableau Server / Tableau Cloud user permissions

Data Access Row-level security (if sensitive data is involved)

5. Data Processing & ETL Layer

Component Technologies/Tools Used

- Microsoft Excel (initial cleaning)

ETL / Data Cleaning - Python (Pandas) for automated cleaning, filtering, merging

- Alteryx or Tableau Prep for advanced data prep workflows (optional)

Data Enrichment - Country codes, GDP, population data from World Bank (optional)