

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	23/06/2025
Team ID	LTVIP2025TMID48315
Project Name	Heritage Treasures: An In-Depth Analysis of UNESCO World Heritage Sites in Tableau
Maximum Marks	4 Marks



Functional Requirements:

1. Data Ingestion and Integration

- The system shall import UNESCO World Heritage Sites data from CSV, Excel, or API sources.
- The system shall clean and transform the raw data (handle null values, standardize names, etc.).
- The system shall support regular updates of the dataset (monthly or yearly).

2. Data Filtering and Navigation

- Users shall be able to **filter sites by country, region, or continent**.
- Users shall be able to **filter sites by type**: Cultural, Natural, or Mixed.
- Users shall be able to **filter by year of inscription**.
- Users shall be able to view **endangered vs. non-endangered sites**.

3. Interactive Visualizations

- The dashboard shall display a **world map** showing the location of each heritage site.
 - The dashboard shall include **bar charts** to compare site counts across countries/regions.
 - The dashboard shall include **time series charts** showing growth over years.
 - The dashboard shall support **drill-down functionality** (e.g., from global to country level).
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4. Site-Level Details

- The system shall allow users to **click on a site to view more details**, such as:
 - Site name
 - Country
 - Year of inscription
 - Criteria (e.g., cultural, natural)
 - Endangered status
 - Description (optional)
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5. Dashboard Usability

- The dashboard shall be **accessible on desktop and tablet devices**.
- The system shall include **search functionality** for site name or country.
- The dashboard shall have a **clear legend, titles, and tooltips** for user guidance.

6. Performance and Reliability

- The system shall respond to filter and interaction inputs **within 2 seconds**.
 - The dashboard shall maintain **data accuracy and consistency** at all times.
 - The system shall allow export of filtered results **to Excel or PDF** (optional feature).
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7. User Support and Guidance

- The system shall include an **intro section or info panel** explaining how to use the dashboard.
- The dashboard shall offer **hover tooltips** for chart elements and filters.