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Heritage Treasures Project – Final Report

1. INTRODUCTION

1.1 Project Overview

This project presents an interactive dashboard analyzing UNESCO World Heritage Sites. It enables users to explore site categories, endangered statuses, locations, and historical trends with ease.

1.2 Purpose

The purpose is to make cultural data more accessible for travelers, researchers, and policymakers using data visualization.

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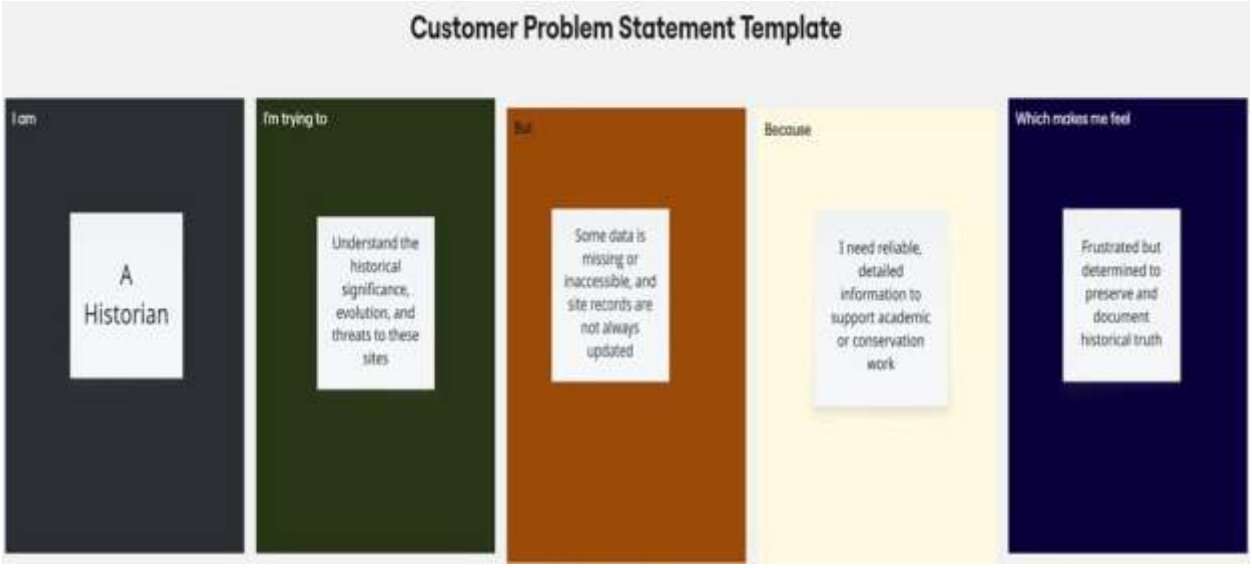
2. IDEATION PHASE

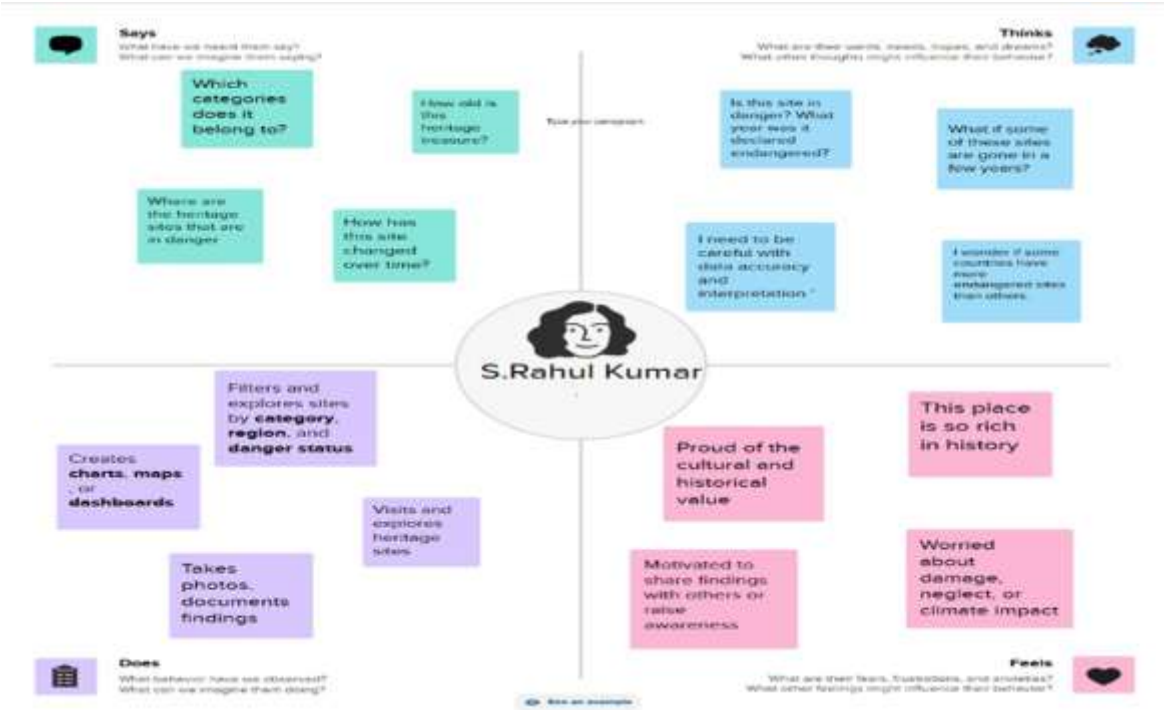
2.1 Problem Statement

Users find it difficult to locate and interpret global heritage data in a simple, meaningful format.



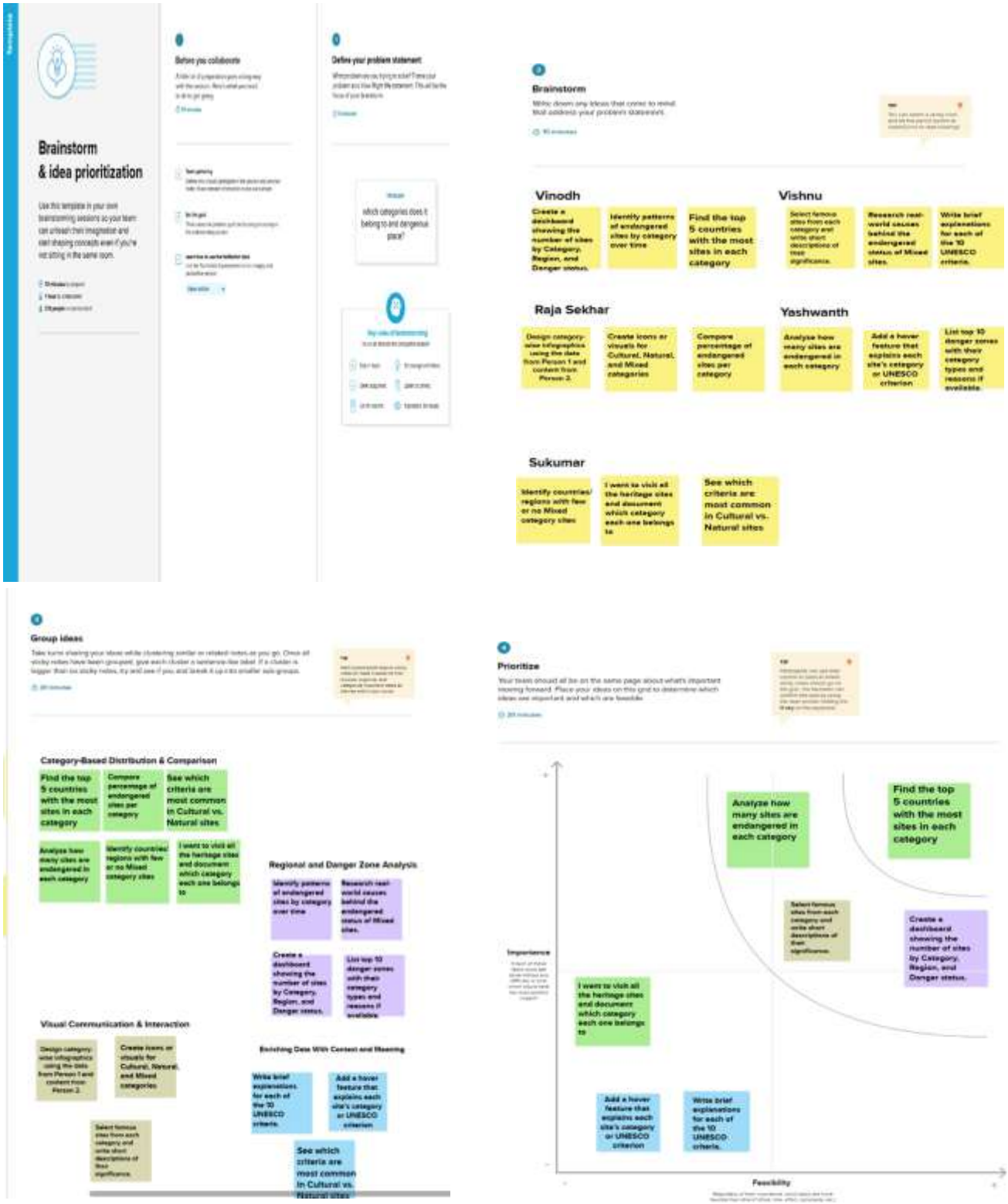
2.2 Empathy Map Canvas

Included perspectives of travelers, historians, and students focusing on their needs, actions, and challenges when exploring heritage data.



2.3 Brainstorming

Ideas included visualizing endangered sites, filtering by category, embedding dashboards on the web, and designing a regional comparison.



3. REQUIREMENT ANALYSIS

3.1 Customer Journey Map

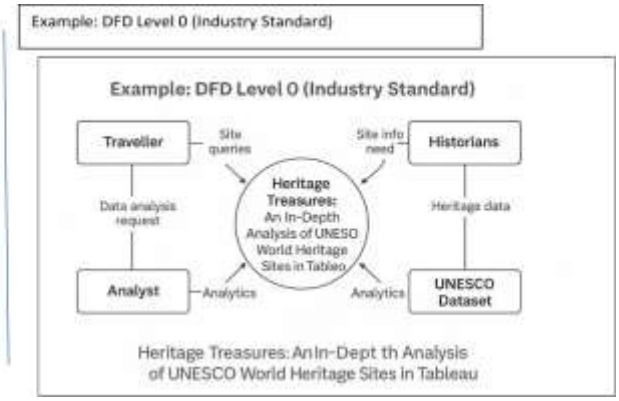
Mapped how different user types interact with the dashboard, from accessing it to drawing insights.

3.2 Solution Requirement

- Functional: Site filtering, map visualizations, story insights
- Non-Functional: Usability, performance, and scalability

3.3 Data Flow Diagram

Structured data from CSV → Tableau Prep → Dashboard → Embedded Web App



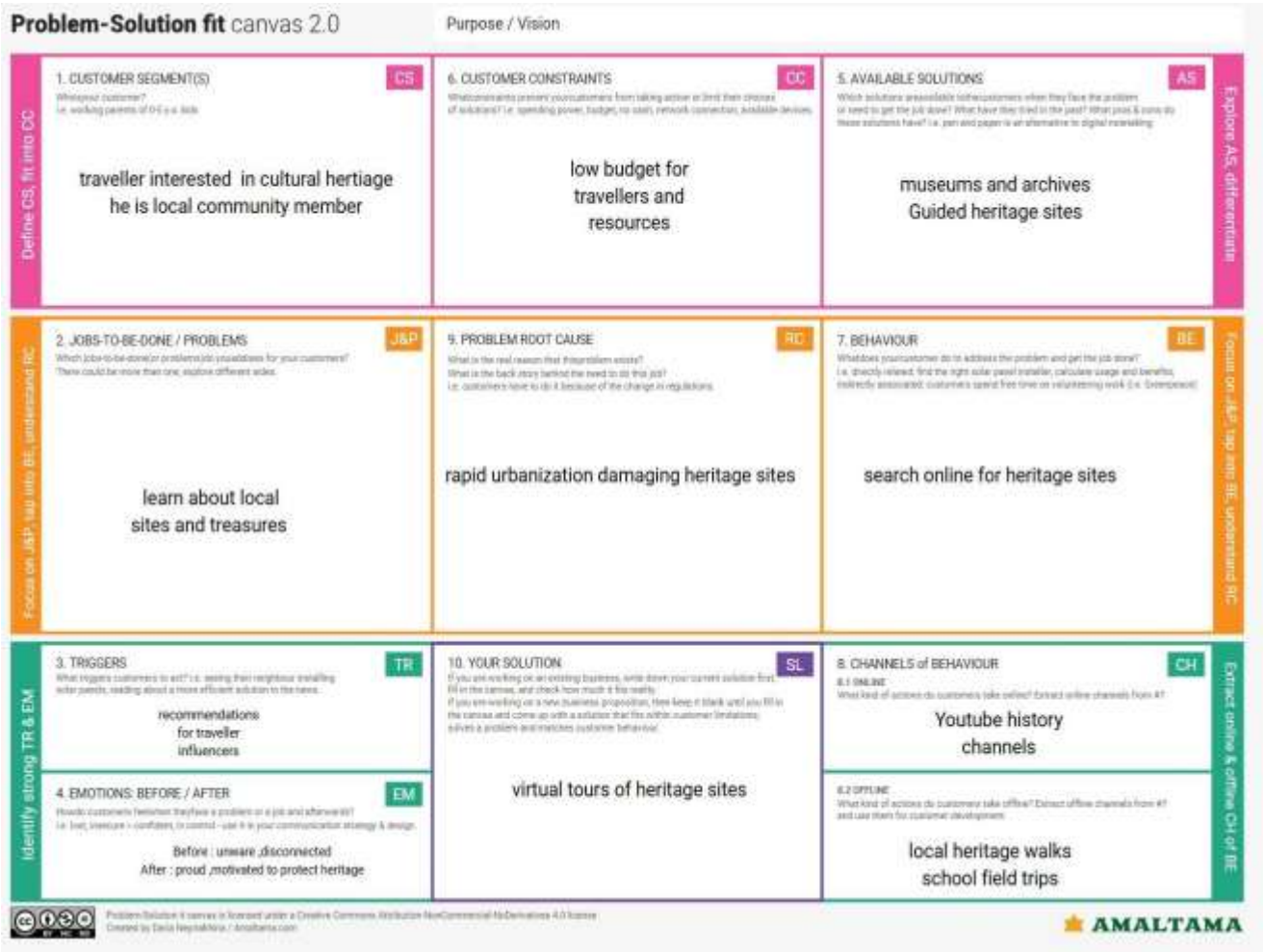
3.4 Technology Stack

- Tableau Prep, Tableau Desktop
- Flask (Python), HTML/CSS
- Google Drive (storage)

4. PROJECT DESIGN

4.1 Problem Solution Fit

A dashboard was identified as the best way to present multi-dimensional data to a broad audience.

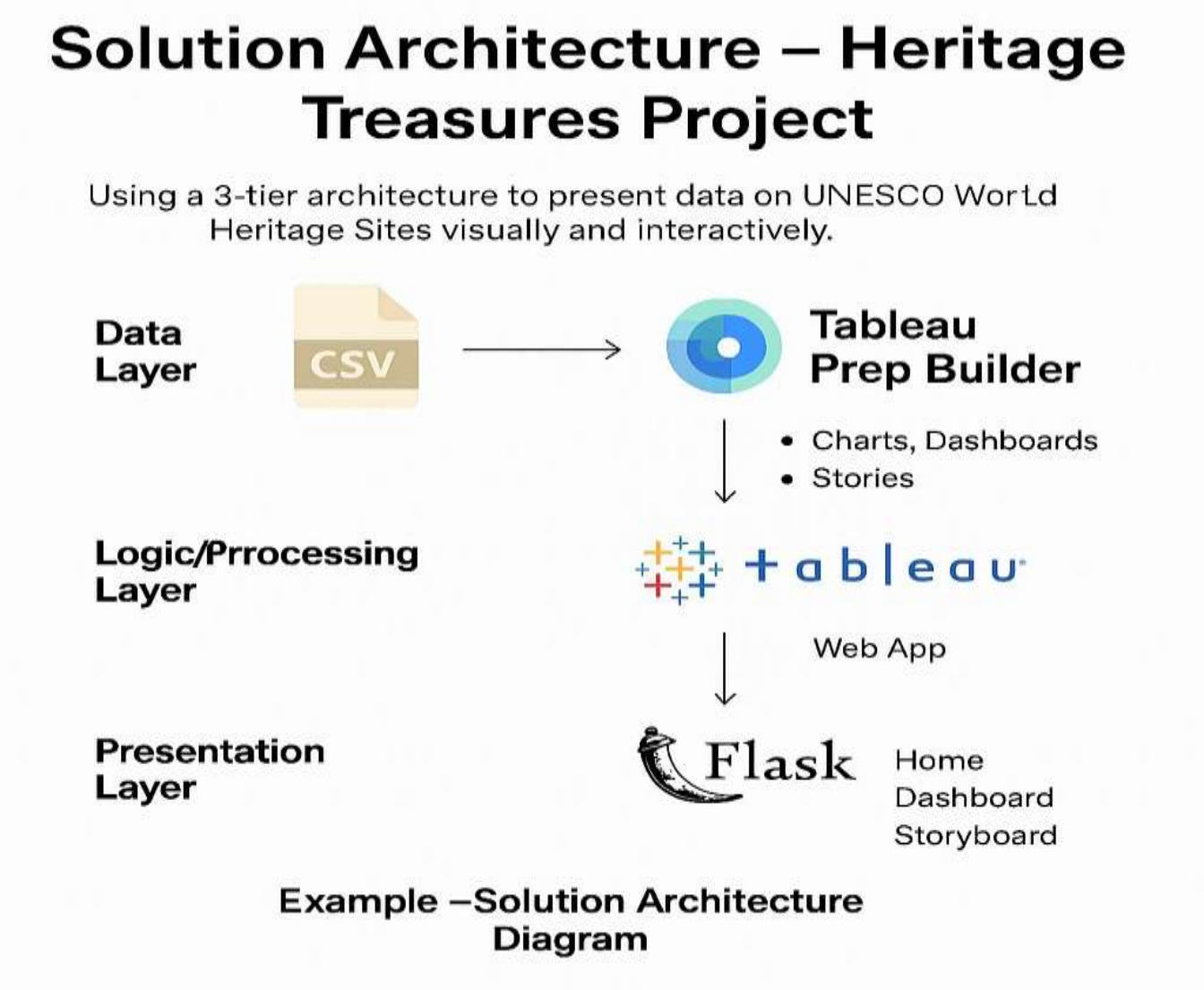


4.2 Proposed Solution

Create a multi-page Tableau dashboard hosted in a web app using Flask, including visual and story insights.

4.3 Solution Architecture

Three-tier architecture: Data Layer → Logic Layer (processing & visualization) → Presentation Layer (web UI



5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

Sprints, user stories, velocity, and burndown chart planned and tracked across 2 sprints.

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6. FUNCTIONAL AND PERFORMANCE TESTING

6.1 Performance Testing

Tested dashboard load time, filter performance, and user interactivity.

- Velocity = 14 story points per sprint
- Burndown graph created to visualize sprint progress

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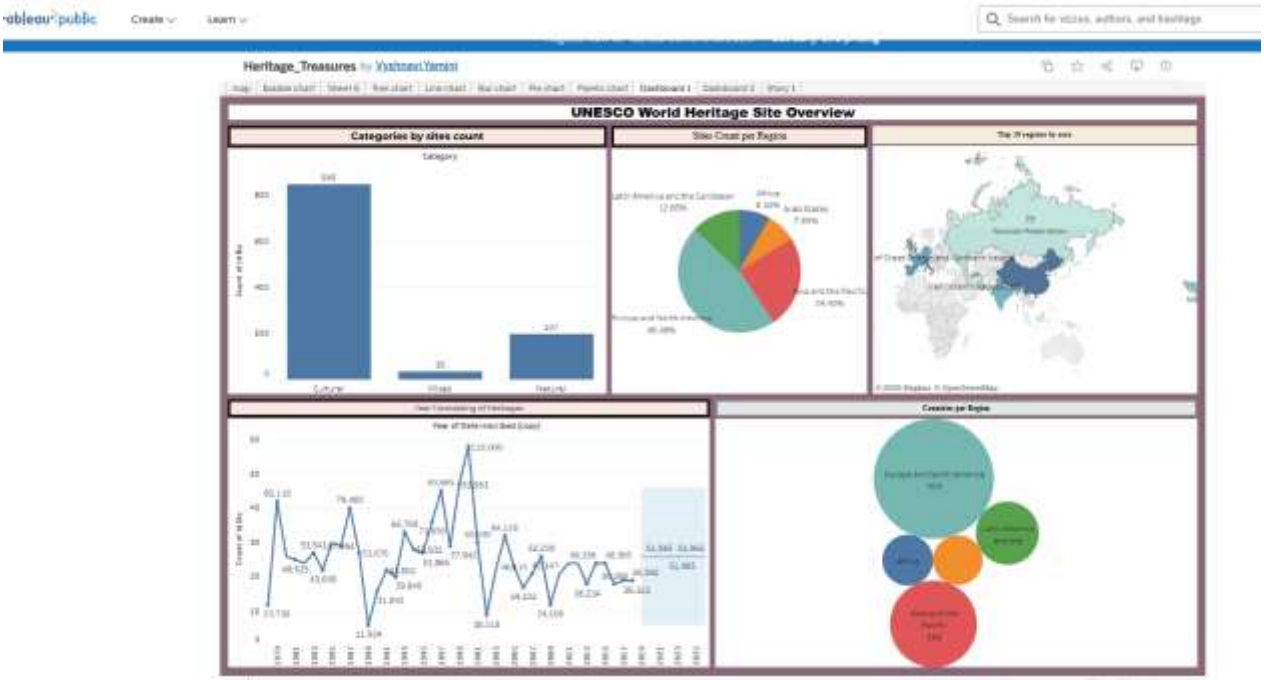
7. RESULTS

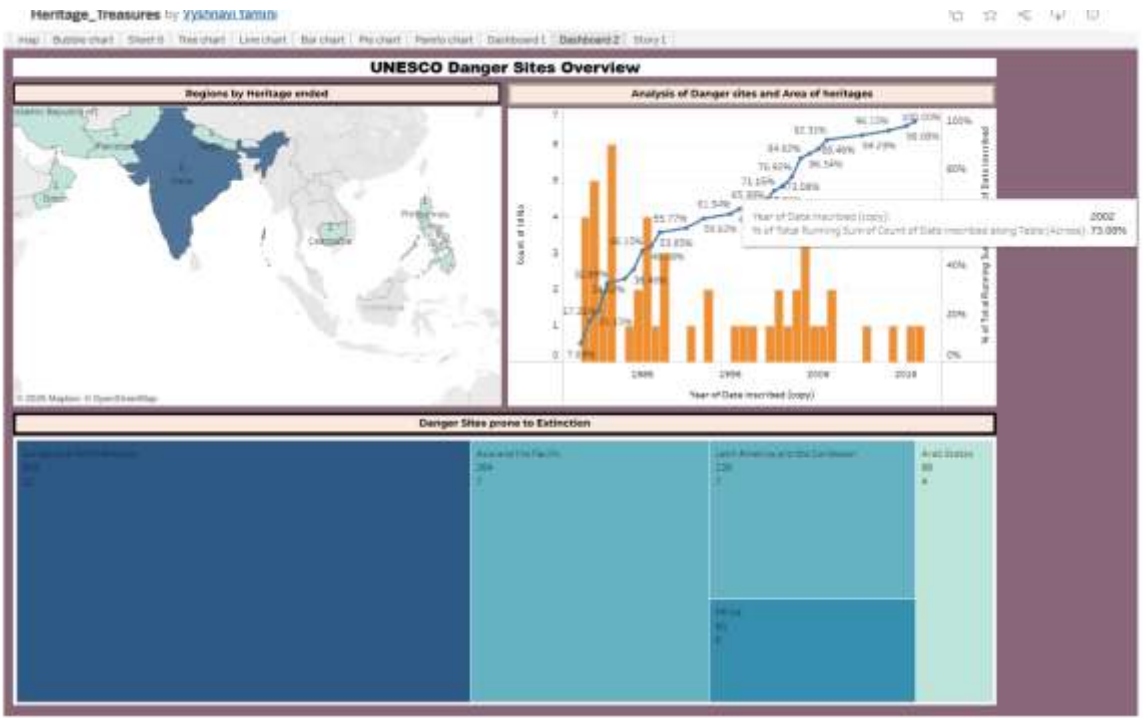
7.1 Output Screenshots

- **Screenshots of Tableau dashboards showing**

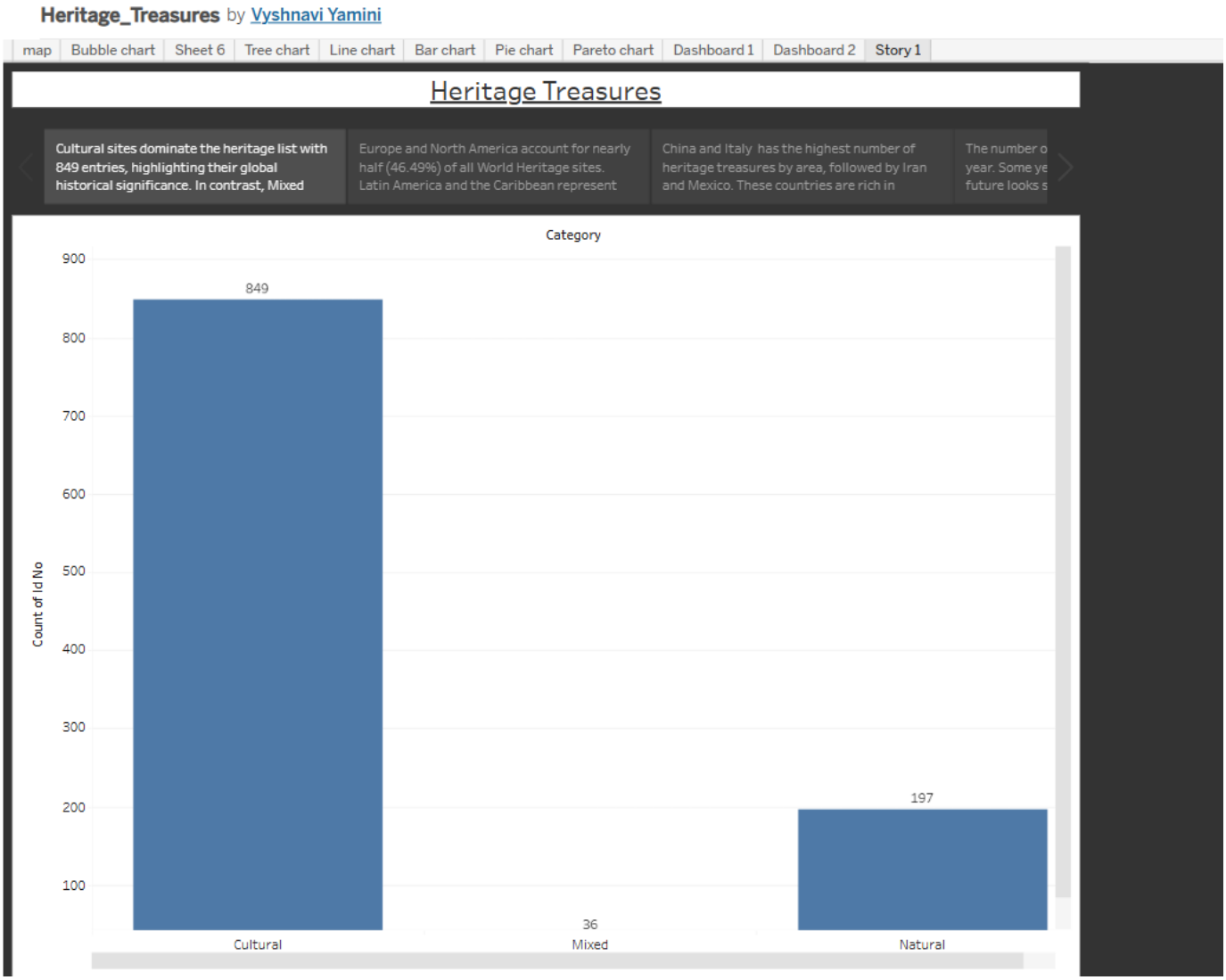
UNESCO World Heritage Site Overview



UNESCO Danger Sites Overview


Heritage_Treasures by Vyshnavi Yamini
UNESCO Danger Sites Overview
Regions by Heritage ended
Analysis of Danger sites and Area of heritages
Danger Sites prone to Extinction

Story


Heritage_Treasures by Vyshnavi Yamini
map
Bubble chart
Sheet 6
Tree chart
Line chart
Bar chart
Pie chart
Pareto chart
Dashboard 1
Dashboard 2
Story 1
Heritage Treasures
Cultural sites dominate the heritage list with 849 entries, highlighting their global historical significance. In contrast, Mixed
Europe and North America account for nearly half (46.49%) of all World Heritage sites. Latin America and the Caribbean represent
China and Italy has the highest number of heritage treasures by area, followed by Iran and Mexico. These countries are rich in
The number o year. Some ye future looks s
Category
Count of Id No
900
800
700
600
500
400
300
200
100
849
36
197
Cultural
Mixed
Natural

8. ADVANTAGES & DISADVANTAGES

Advantages:

- Easy access to cultural data
- Visually appealing
- Interactive and filterable

Disadvantages:

- Requires internet for dashboard embedding
- Limited offline access

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9. CONCLUSION

The project successfully converts heritage site data into interactive insights using modern tools, helping raise awareness of endangered sites.

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10. FUTURE SCOPE

- Add machine learning for site risk prediction
- Enable real-time updates via API
- Support more languages and offline features

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11. APPENDIX

Source Code: Provided in GitHub repo
Dataset Link: UNESCO World Heritage Sites 2019

GitHub
https://github.com/Vishnu89-ui/Heritage-treasures-an-in-depth-analysis-of-unesco-world-heritage-sites-in-tableau

Demo link
https://drive.google.com/file/d/1j-GggaMOpW83gHPlgtxCWkGGl3BeLGSc/view?usp=drivesdk