

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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| Date | 28 th May 2025 |
| Team ID | LTVIP2025TMID48210 |
| Project Name | Heritage Treasures: An In-Depth Analysis of UNESCO World Heritage Sites (2019) |
| Maximum Marks | 4 Marks |

Functional Requirements:

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|---|
| FR-1 | User Access | Login through system dashboard Logout functionality |
| FR-2 | Data Visualization | View tree map of heritage sites by country View pie chart for 'In Danger' vs 'Not in Danger' sites View line chart of inscription trends by region and year |
| FR-3 | Data Filtering | Filter data by year Filter data by region Filter data by site category (optional) |
| FR-4 | Data Export | Export visualizations in PDF format Export visualizations in PNG format |

Non-functional Requirements:

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | The system must have an intuitive, user-friendly dashboard interface that allows users to easily navigate visualizations and filters |
| NFR-2 | Security | The system must secure data access, ensuring only authorized users can access, view, and export visual reports. |
| NFR-3 | Reliability | The system should consistently perform queries and generate visualizations without failures or data loss. |
| NFR-4 | Performance | The system must load visualizations and process data queries within an acceptable time frame (under 3 seconds for standard queries). |
| NFR-5 | Availability | The system should maintain 99% uptime to ensure continuous access for heritage officers, researchers, and decision-makers. |
| NFR-6 | Scalability | The system should be capable of handling additional datasets or increasing data size without affecting performance. |