**Project Design Phase-II**

**Solution Requirements (Functional s Non-functional)**

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| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID50687 |
| Project Name | visualizing housing market trends: an analysis of sale prices and features using tableau |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR**  **No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form-Allows users to register with name,email,password.  Registration through Gmail-enables social login using Google OAuth.  Registration through LinedIn-provides LinkedIn authentication option. |
| FR-2 | User Confirmation | Confirmation via Email-users receive a confirmation link.  Confirmation via OTP-Optional second-factor verification via mobile/email. |
| FR-3 | DashBoard Access | View dashboards by region,country,site type,and year of inscription.  Interactive charts,maps,and filters respond to user input in real-time. |
| FR-4 | Data ExportCSharing | Export dashboards or filtered data to Excel or PDF.  Share dashboard views via email or public links. |

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| FR-5 | Admin Data Management | Admin can upload/update UNESCO datasets via CSV or API.  Admin can manage users,roles,and dashboard access controls. |
| FR-6 | Advanced Filtering CSearch | Search heritage sites by name,country,or criteria.  Apply filters by continent,type(Cultural/Natural),or time range. |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| **FR**  **No.** | **Non-Functional Requirement** | **Description** |
| NFR- 1 | **Usability** | Dashboards and features should be user-friendly and intuitive for all user roles. |
| NFR- 2 | **Security** | Ensure secure data handling,user  authentication(OAuth),and role-based access. |
| NFR- 3 | **Reliability** | System should deliver consistent uptime with accurate data rendering. |
| NFR- 4 | **Performance** | Dashboards must load within 3-5 seconds,even under moderate load. |
| NFR- 5 | **Availability** | The System should be accessiable 24/7 with>99% uptime. |
| NFR- 6 | **Scalability** | The solution should handle growing data volumes and additional users easily. |