# Project Design Phase

## Proposed Solution Template

Date: 28 June 2025

Team ID: LTVIP2025TMID37298

Project Name: Sustainable Smart City Assistant Using IBM Granite LLM

Maximum Marks: 2 Marks

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### Proposed Solution Template

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| S.No | Parameter | Description |
| 1. | Problem Statement (Problem to be solved) | Travelers face challenges in discovering, booking, and managing guided city tours due to scattered information, complex booking steps, and lack of personalization. |
| 2. | Idea / Solution Description | Develop a user-friendly guided city tours platform integrated with Fairplane's travel booking. It allows users to browse, select, and book tours based on city, date, and number of people — all via a single website or app. |
| 3. | Novelty / Uniqueness | Combines city tours with existing travel booking, offering personalization, smooth navigation, and cookie-based preferences to reduce repetitive data entry. |
| 4. | Social Impact / Customer Satisfaction | Enhances traveler experience by making city exploration accessible, informative, and enjoyable. Encourages cultural discovery and supports local tour guides. |
| 5. | Business Model (Revenue Model) | Commission-based earnings per booking, promotional placements for tour companies, and premium features (e.g., priority booking, exclusive tours). |
| 6. | Scalability of the Solution | Can be scaled to cover global cities with multilingual support, local partnerships, dynamic pricing, and AI-powered recommendation systems. |

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## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

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Maximum Marks: 4 Marks

#### Functional Requirements:

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| --- | --- | --- |
| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
| FR-1 | User Registration | Registration via Form, Gmail, LinkedIn |
| FR-2 | User Confirmation | Confirmation via Email, OTP |
| FR-3 | Tour Selection & Booking | Browse tours by city/date/people, View tour details, Book tour |
| FR-4 | Tour Preferences & History | Save past bookings, Set preferences using cookies |

#### Non-Functional Requirements:

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| --- | --- | --- |
| NFR No. | Non-Functional Requirement | Description |
| NFR-1 | Usability | Simple and intuitive UI for quick booking and easy navigation |
| NFR-2 | Security | Secure user data handling and encrypted payment gateway |
| NFR-3 | Reliability | Consistent booking experience with uptime > 99% |
| NFR-4 | Performance | Fast page loads (<2s), quick booking processing |
| NFR-5 | Availability | Accessible 24/7 across devices (web, Android, iOS) |
| NFR-6 | Scalability | Can support increasing users, cities, and tour providers without performance degradation |