

## Non-Functional Requirements

Non-functional requirements for a (project name) are characteristics or qualities that describe how the system should behave, rather than specifying what the system should do. These requirements are crucial for ensuring the system's performance, reliability, security, etc. Here are some non-functional requirements for a medical waste management system:

### Performance:

- To achieve optimal performance, the system must be able to handle multiple users (tourist, tour guide, admins) at the same time.
- The response time for user interactions should be less than 2 seconds for all primary operations.
- Chat interface responses should take no longer than 5 seconds to create plan

### Scalability:

- The system must support increased postings, data, and user load over time without a loss of performance.
- Add new features or modules with minimal disruption

### Reliability:

- The system must be reliable to ensure that user's information will not lost or corrupted.
- It is necessary to have systems in place to handle failures, such as automatic data backups and redundancy.

### Security:

- Require multi-factor authentication (MFA) for guide and admin accounts.
- Use encryption to protect user data (e.g., personal details, payment info) and implementing secure payment

### Usability:

- The system should be user-friendly and intuitive so that users can easily know the basic feature within 10 seconds
- Payment process should have a response time of less than 5 seconds for payment confirmation.

### Compatibility:

- The system must be compatible with a variety of platforms, browsers, and devices.

**Maintainability:**

- A simple system that can be easily maintained and expanded should be the focus.
- To make the codebase more flexible, it should be well-documented so that future updates, bugs fixed as needed, and new features added.