

Non-Functional Requirements

1. Performance

- 1.1. The system must support at least 500 concurrent users without performance degradation.
- 1.2. Event listings must load within 5 seconds for 95% of users under normal load.
- 1.3. The platform should handle up to 300 ticket purchases per minute during peak periods.

2. Scalability

- 2.1. The platform must be scalable to accommodate increasing user traffic and data as the user base grows.
- 2.2. It should support the addition of new features without significant downtime or performance impact.

3. Availability

- 3.1. The system must have an uptime of 99.9% annually.
- 3.2. Planned maintenance windows must be announced at least 48 hours in advance and occur during non-peak hours.

4. Reliability

- 4.1. Data entered by users (e.g., event details, attendee information) must be stored without loss.
- 4.2. In the event of a failure, the system must recover within 5 minutes.

5. Security

- 5.1. All user data must be encrypted at rest and in transit.
- 5.2. The system must comply with GDPR, PCI-DSS, and other applicable data protection regulations.
- 5.3. Regular security audits and penetration tests must be conducted to identify vulnerabilities.

6. Usability

- 6.1. The platform must have an intuitive and user-friendly interface with clear navigation.
- 6.2. User onboarding for new organizers or attendees should take no longer than 5 minutes.
- 6.3. The design must adhere to accessibility standards.

7. Maintainability

- 7.1. The codebase should be modular and well-documented to simplify updates and bug fixes.
- 7.2. The platform must allow for hotfixes to be deployed without disrupting active users.
- 7.3. Third-party dependencies should be kept up-to-date and monitored for vulnerabilities.

8. Portability

8.1. EVENTHUB must be accessible via modern browsers (Chrome, Firefox, Edge, Safari) and operating systems.

8.2. Mobile apps must be compatible with the latest two major versions of iOS and Android.

9. Backup and Disaster Recovery

9.1. User and event data must be backed up daily and retained for at least 30 days.

9.2. A disaster recovery plan must ensure the platform can be fully restored within 24 hours.

10. Localization

10.1. The system should support regional date, time, and currency formats.

10.2. Texts should be easily translatable into multiple languages without requiring code changes.

11. Interoperability

11.1. The platform must integrate seamlessly with third-party tools like payment gateways, email marketing systems, and social media platforms.

11.2. Support APIs for external integrations, allowing event data to be pulled or pushed to other systems.

12. Analytics and Monitoring

12.1. Real-time monitoring of system health, user activity, and ticket sales must be enabled.

12.2. Logs must be maintained for all critical actions, accessible for auditing purposes for up to 90 days.

13. Compliance

13.1. The platform must adhere to all local laws and regulations in the regions it operates (e.g., tax regulations, anti-spam laws).

13.2. All emails sent through the platform must comply with CAN-SPAM and other similar regulations.

14. Energy Efficiency

14.1. The platform must optimize server usage to reduce energy consumption and environmental impact.

15. Flexibility

15.1. The platform must allow customization of event pages and features to meet the unique needs of different organizers.