**Non-Functional Requirements**

**1. Performance Requirements:**

1. The system should support at least 10,000 simultaneous users without degradation of performance.

2. The response time for displaying a tweet should be less than 1 second under normal load conditions.

**2. Scalability:**

1. The system should be designed to easily scale horizontally to accommodate increased user loads.

2. The database should be scalable to handle a growing number of tweets and user accounts.

**3. Availability:**

1. The system should be available 99.9% of the time, excluding scheduled maintenance periods.

2. In case of a server failure, the system should recover within 5 minutes.

**4. Reliability**:

1. The system should be able to handle data consistency and integrity, ensuring that tweets are not lost or duplicated.

2. Backup and recovery mechanisms should be in place to prevent data loss in case of system failures.

**5. Security:**

1. User authentication should be robust, supporting strong password policies and multi-factor authentication.

2. The system should encrypt sensitive user data, such as passwords and personal information, during transmission and storage.

**6. Usability:**

1. The user interface should be intuitive and user-friendly, requiring minimal training for users to navigate and use the platform effectively.

2. The system should provide accessibility features to ensure usability for users with disabilities.

**7. Compatibility:**

1. The application should be compatible with major web browsers (Chrome, Firefox, Safari, Edge) and mobile platforms (iOS, Android).

2. The system should support multiple languages to cater to a diverse user base.

**8. Maintainability:**

1. Code should be well-documented, and the system architecture should be modular to facilitate easy maintenance and future enhancements.

2. Updates and patches should be deployable with minimal downtime.

**9. Legal and Compliance:**

1. The system should comply with data protection regulations, ensuring user privacy and data security.

2. Terms of service and privacy policy should be clearly communicated to users, and users should consent to these policies during registration.

**10. Performance Monitoring:**

1. The system should have built-in monitoring tools to track performance metrics, identify bottlenecks, and generate reports for administrators.

**11. Backup and Recovery:**

1. Regular backups of the database should be performed, and a recovery plan should be in place to restore the system in case of data loss.