**Software Requirements Specification (SRS)**

5**. Non-Functional Requirements**

5.1 Performance

5.1.1 Response Time

Description: The system should provide responsive performance to ensure a smooth user experience.

Requirements:

NFR5.1.1.1: The system should respond to user interactions within 2 seconds.

Prority: High

5.1.2 Concurrent Users

Description: The system should handle multiple users simultaneously during peak loads.

Requirements:

NFR5.1.2.1: The system must support at least 1000 concurrent users without degradation in response time.

NFR5.1.2.2: The system must scale to support an increased number of concurrent users with minimal downtime.

Priority: High

5.2 **Security**

5.2.1 User Data Protection

Description: The system should ensure the security and privacy of user data.

Requirements:

NFR5.2.1.1: User authentication and authorization must be secure and protect against unauthorized access.

NFR5.2.1.2: User data (including personal and financial information) should be encrypted during transmission and storage.

NFR5.2.1.3: The system should be regularly tested for vulnerabilities, and security patches should be applied promptly.

Priority: High

5.3 **Scalability**

5.3.1 System Scalability

Description: The system should be able to adapt to increasing demands over time.

Requirements:

NFR5.3.1.1: The system architecture should be designed for horizontal scalability, allowing the addition of more servers and resources as needed.

NFR5.3.1.2: The system should be able to handle a 50% increase in users and transactions over the next two years.

Priority: Medium

5.4 **Availability**

5.4.1 System Availability

Description: The system should be available to users without significant downtime.

Requirements:

NFR5.4.1.1: The system should have at least 99.9% uptime.

NFR5.4.1.2: Scheduled maintenance or updates should occur during low-traffic periods.

Priority: High

5.5 **Usability**

5.5.1 User Interface Design

Description: The user interface should be intuitive and user-friendly.

Requirements:

NFR5.5.1.1: The user interface should follow established usability guidelines, such as providing clear navigation and error messages.

NFR5.5.1.2: Users should be able to learn how to use the system within 15 minutes.

Priority: Medium

5.6 **Reliability**

5.6.1 System Reliability

Description: The system should be reliable, minimizing the risk of data loss and errors.

Requirements:

NFR5.6.1.1: The system should regularly back up data to prevent data loss in case of system failures.

NFR5.6.1.2: The system should be designed to minimize unexpected crashes and failures.

Priority: High

6**. Other Requirements**

(Include any other requirements specific to the online auction system here)