1. **Performance-Requirements**

The performance requirements of the Talent Hunt web application encompass both hardware and software aspects to ensure efficient and optimal functionality for Users, Artists, and Admins. These requirements are essential for delivering a smooth and responsive experience within the platform.

* 1. **Hardware and software requirements**

**Hardware Requirements:**

**1. Server Infrastructure:**

- High-performance servers with sufficient processing power, RAM, and storage.

- Load balancers for distributing traffic evenly across multiple servers to handle varying levels of user activity.

**2. Database Server:**

- A dedicated database server with ample storage and processing capacity to manage user, artist, booking, and content data.

**3. Network Infrastructure:**

- Reliable and high-speed internet connectivity to support seamless data transmission between users, artists, and the application's components.

**4. Security Measures:**

- Firewalls, intrusion detection systems, and encryption protocols to ensure data security and protect against cyber threats.

**Software Requirements:**

**1. Operating System:**

- Server OS that supports the chosen technology stack.

**2. Back-end Framework:**

- Spring Boot framework for efficient backend development, REST API implementation, and business logic.

**3. Front-end Framework:**

- React framework for creating an interactive and responsive user interface.

**4. Database Management System:**

- MySQL database for storing and retrieving user, artist, booking, and content data.

**5. Web Server:**

- Apache or Nginx web server for hosting the application and serving frontend content.

**6. Load Balancing and Scaling Tools:**

- Tools for load balancing, auto-scaling, and managing server resources dynamically based on traffic demands.

**7. Payment Gateway Integration:**

- Integration with a secure and reliable payment gateway for processing online transactions.

**8. Communication and Notification Services:**

- Integration with services for real-time communication and notifications between Users, Artists, and Admins.

**9. Security and Data Protection Libraries**:

- Libraries for implementing security measures such as encryption, authentication, and authorization.

**10. Version Control:**

- Git for version control and collaboration among development teams.