

NON - Functional Requirement

NO	Requirement	Detailed Requirement	Services used	Detailed Explanation
1	Security	JWT tokens must be used for secure user authentication and authorization.	All Services	Jwt Tokens are created while logging in and they are passed as header for the request
2	Scalable User Management	Handle increasing user load.	All Services	The system should be designed to handle an increasing number of users and requests.
3	Independent Service Scaling	Microservices architecture should allow individual services to scale independently.	All Services	Microservices architecture enables each service to be scaled independently based on its load, enhancing resource utilization and system efficiency.
4	Low-Latency Performance	The application should respond to user requests with minimal latency.	All Services	Implementing CDNs and caching can significantly reduce response times, ensuring a fast and responsive user experience.
5	High Load Efficiency	The system should be capable of handling high loads without significant performance degradation.	All Services	Regular performance testing and monitoring ensure the system can handle peak loads efficiently, maintaining optimal performance under stress.
6	System Availability and Resilience	The system should ensure high availability and resilience to failures.	All Services	Implementing redundancy and failover mechanisms ensures the system remains available and resilient, even in the event of component failures, maintaining user trust and service continuity.