**5. Other Nonfunctional Requirements**

5.1. Performance Requirements

The performance requirements of CarSelecta should outline the expected speed, reliability, scalability, and efficiency of the system. This includes the maximum response time for user actions, the ability to handle increasing numbers of users and car listings, and resource usage. These requirements must be realistic and achievable, considering hardware limitations and network bandwidth. They should also be measurable and verifiable, allowing the system to be tested and evaluated against defined standards.

5.2. Safety Requirements

CarSelecta must be reliable with minimal downtime to ensure that sellers can list cars and buyers can browse and purchase in a timely manner. The user interface should be intuitive and user-friendly to prevent errors or misunderstandings. Robust error handling mechanisms are needed to handle unexpected situations and prevent any harm to the user or loss of data.

5.3. Security Requirements

* CarSelecta will include measures to protect the confidentiality, integrity, and availability of sensitive information such as user profiles, car details, and transactions. The security requirements include:
* Authentication: A secure authentication system that ensures only authorized users can access the platform.
* Authorization: Mechanisms to determine what actions a user can perform within the system, based on their role and permissions.
* Encryption: Data in transit and at rest should be encrypted to protect sensitive information from unauthorized access.
* Access Control: Controls to manage access to sensitive information, including permissions for different users and roles.

5.4. Software Quality Attributes

The software quality attributes for CarSelecta include:

* Usability: The interface should be intuitive and user-friendly, allowing users to easily list, browse, and purchase cars.
* Reliability: The system must be reliable and provide accurate results, ensuring that listings and transactions are handled efficiently.
* Performance: CarSelecta should respond quickly to user requests, allowing for fast and seamless interactions.
* Scalability: The platform must be scalable to accommodate an increasing number of users and listings.
* Maintainability: The code and processes should be easy to update and well-documented, ensuring quick and efficient updates.
* Security: Strong security features must protect sensitive information and ensure user privacy and confidentiality.
* Compliance: CarSelecta must comply with relevant regulations and standards, operating within legal bounds and industry best practices.