

CarFax Bidding Software Requirements Specification For Bidding Subsystem

Version 1.0

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Software Requirements Specification

1. Introduction

1.1 Purpose

The purpose of this Software Requirements Specification (SRS) is to provide a detailed description of the car auction marketplace, which will allow users to list, bid, and purchase cars through a secure e-bidding system. The system will offer functionality for different types of users, including general users and VIP members, and manage transactions securely within the platform. Additionally, the system will allow users to access detailed information about a vehicle including vehicle history (previous users, accidents, etc.) and current condition.

1.2 Scope

This SRS applies to the development of a car auction marketplace where users can interact through bidding for cars. The system will involve three types of users: visitors, regular users, and super-users (administrators). Features include listing cars, making bids, secure payment processing, and a rating system to ensure user trust. Users have the option to either buy the vehicle at the value set by the administrator or bid until the time runs out. The posting of each vehicle will hold a seller reserve, a minimum threshold for what the bidding must surpass to be sold.

1.3 Definitions, Acronyms, and Abbreviations

V: Visitor

U: User (regular user with full access to the bidding system)

S: Super-user (administrator with additional privileges)

VIP: High-status user with benefits such as discounts

SRS: Software Requirements Specification

GUI: Graphical User Interface

1.4 References

2019 Acura TLX Tech A-SPEC PKGS.” IAAI.Com,
www.iaai.com/VehicleDetail/40848380~US. Accessed 16 Oct. 2024.

1.5 Overview

This document covers the requirements of the car auction system, including user interactions, system features, and administrative functions. The rest of the document provides details on use cases, specific requirements, and supporting information for the system design and development.

2. Overall Description

2.1 Use-Case Model Survey

The car auction system will feature several primary use cases:

1. Browsing: Visitors and users can browse car listings.
2. Bidding: Registered users can place bids on cars.
3. Transaction Handling: Once a bid is accepted or the timer runs out (30 days), the transaction will be processed if the bid is equal to or exceeds the Sellers Reserve.
4. Rating System: Users rate each other post-transaction to maintain trust.
5. VIP Privileges: VIP users gain special privileges to exclusive vehicles at high prices and low damage (Lamborghini, Porsche) and view full Vehicle History.

2.2 Assumptions and Dependencies

1. The system will rely on a secure payment gateway for transactions.
2. All users must verify their accounts through a human-verification step.
 - a. Include personal information using a Driver's License and banking information
3. The system depends on a reliable internet connection and external APIs for vehicle history reports (e.g., CarFax).
4. All vehicles are properly described according to their damage and given a proper cash value price

3. Specific Requirements

3.1 Use-Case Reports

Visitor (V): Can browse the list of available cars and see the details of each listing. They can apply to become a user by answering a human-verification question.

User (U): Can list cars, place bids, and participate in transactions. After successful transactions, they can rate the seller and leave comments.

Super-user (S): Can approve new users, manage complaints, and handle suspensions.

VIP User: Regular users with a balance over \$5,000 or who have completed a certain number of transactions can become VIP users and gain a discount on transactions.

3.2 Supplementary Requirements

Security: All financial transactions must be encrypted, and user credentials will be stored securely.

Performance: The system should handle high-traffic scenarios, especially during live bidding sessions.

User Interface: The GUI should be user-friendly and personalized for each user's needs.

4. Supporting Information

- 2019 Acura TLX Tech A-SPEC PKGS." IAAI.Com, www.iaai.com/VehicleDetail/40848380~US. Accessed 16 Oct. 2024.