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| Software Requirements Specifications Document For Accurate Auto Inventory | David Terrya  Min Mengb  Ryan Abbotta  Robbie Evans IIIa  a Grand Canyon University  b University of Missouri, Columbia  November/22/2016 |
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## ABSTRACT

One of the most important responsibilities of being a computer programmer is the ability to determine the specific requirements a business needs for the software they want you to build. Every business is unique and it is the job of the computer programmer to make sure the software to be developed meets the requirements for the company. In our assignment, we built an accurate auto inventory software for auto mechanics company through the Business to Business (B2B) and Business to Customers (B2C). Auto mechanics have a lot of information to keep track of, including customer records, emergency and recurring inspection appointments, inventory, billing, quotes and estimates, and more. Paper-and-pencil record keeping and multiple Excel spreadsheets are not efficient methods for running a repair shop these days, especially for auto mechanics who want to streamline their shop management systems and become more profitable. However, our software will help auto mechanics diagnose issues with vehicles and repair them, reducing the amount of time spent on each customer’s vehicle. Our software has five functions: The user should be able to add and delete items on demand; The system should automatically add and remove items as they are taken or added to inventory based ordering or history; Program should track product use for reporting and reordering purposes; Administrator should be able to purge inventory items; access is restricted via password protection; User should be able to search for items based on name, quantity, or type; User should be able to run reports on demand; Open to any suggestions on future requirements.

# **1 Introduction of document**

* 1. **Purpose**

The purpose of this document is to define and describe the requirements for Accurate Auto Inventory -- to include a detailed description of functional, data, performance, usability requirements.

* 1. **Document Conventions**

When you read this manual, certain words are represented in different fonts, typefaces, sizes, and weights. This highlighting is systematic; different words are represented in the same style to indicate their inclusion in a specific category. The types of words that are represented this way include the following:

command

Linux commands (and other operating system commands, when used) are represented this way. This style should indicate to you that you can type the word or phrase on the command line and press [Enter] to invoke a command.

file name

File names, directory names, paths, and RPM package names are represented this way. This style should indicate that a particular file or directory exists by that name on your system.

**application**

This style indicates that the program is an end-user application (as opposed to system software).

[key]

A key on the keyboard is shown in this style. For example:

To use [Tab] completion, type in a character and then press the [Tab] key. Your terminal displays the list of files in the directory that start with that letter.

[key]-[combination]

A combination of keystrokes is represented in this way. For example:

The [Ctrl]-[Alt]-[Backspace] key combination exits your graphical session and return you to the graphical login screen or the console.

* 1. **Intended Audience and Reading Suggestions**

This document is intended for the users of the system (employees of No Hassle Auto) and the developers (members of the GCU CST116 Development Team). Constraints include the deadline for the document on 27Nov2016. // is it January 15th when final is due?

* 1. **Project Scope**

The Accurate Auto Inventory is an inventory management system capable of sorting, tracking, reporting, and otherwise managing inventory of cars on a lot, in order to streamline the inventory process and maximize profitability.

* 1. **Business Context**

No Hassle Auto strives toward making every customer experience excellent and seamless. No Hassle Auto is truly no hassle, they provide an honest car buying experience, marking cars for a fair, no haggle price. They also pride themselves on providing accurate information to their clients, they want their customers trust.

* 1. **Abbreviations, Acronyms, Definitions**

Business-to-business (B2B) refers to a situation where one business makes a commercial transaction with another. This typically occurs when:

1. A business is sourcing materials for their production process
2. A business needs the services of another for operational reasons (e.g. a manufacturer employing an accountancy firm to audit their finances).
3. A business re-sells goods and services produced by others

Business to Customers involves the process of selling [consumer goods](https://en.wikipedia.org/wiki/Consumer_goods) or [services](https://en.wikipedia.org/wiki/Consumer_service) to customers through multiple [channels of distribution](https://en.wikipedia.org/wiki/Distribution_channel) to earn a profit. Demand is identified and then satisfied through a [supply chain](https://en.wikipedia.org/wiki/Supply_chain).

1. **Product Overview**

# **Product Functions**

Accurate Auto Inventory is a self-contained, standalone system that allows the employees of No Hassle Auto to input and remove cars, keep count of car models, sort cars according to type, and run various dated and timed reports. System should adjust count automatically as cars are added or removed.

* 1. **Product Features**

// suggestions for features

The employees of No Hassle Auto offers a full range of automotive repair services with a level of professionalism and care that makes such tactics unnecessary. It will be able to search for cars by make, model or stock number and mark cars as sold. For security and so that the information does not get tamper with, employees will be asked to enter their employee ID number when inactive for a period of time.

* 1. **User Classes and Characteristics**

The user class embodies all employees and administrators of No Hassle Auto. All employees will be able to fully navigate the system with the exception that Administrators will hold the high-level privilege of purging the car inventory.

* 1. **Operating Environment**

System should operate across all non-mobile platforms (Windows, Linux & Mac OS).

# **Design Constraints**

//suggestions for constraints

The system shall use the current corporate standard Oracle database engine.

This project should prepare use case diagrams for ALL user types.

The program is not available on Mobile Devices as stated above. The database (which include the data of your inventory) is stored on a local machine and can’t be shared on multiple devices.

* 1. **User Documentation**

//this is where manuals, online assistance, training methods would be referenced. Suggestions? //What is written below is just an idea but is required when submitting final project.

Upon the arrival of Accurate Auto Inventory, No Hassle Auto will also receive a training video for administrators and employees. This video will walk through items included in “Statement of Functionality”.

# **3 Functional Requirements**

## **3.1 Statement of Functionality**

Accurate Auto Inventory will permit the No Hassle Auto to seamlessly manage their inventory via user interface controls.

* FR(0) : The user should be able to add and delete items on demand.
* FR(1) : The system should automatically add and remove items as they are taken or added to inventory based ordering or history.
* FR(2) :Program should track product use for reporting and reordering purposes.
* FR(3) :Administrator should be able to purge inventory items; access is restricted via password protection.
* FR(4) : User should be able to search for items based on name, quantity, or type.
* FR(5) : User should be able to run reports on demand.
* FR(6) : // OPEN TO ANY SUGGESTIONS ON FURTHER REQUIREMENTS..

# ***4 Interface Requirements***

## **4.1 GUI**

User interface will be based on Microsoft

## **4.2 Command Line Interface**

No command line interface for this project.

## **4.3 Communications Interface**

## **4.4 Software Interface**

## **5.0 References**

## **6.0 Appendix**