**Furman & Salina Auto – Auto Sales Database and App**

**Project Members Sponsor**

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**Introduction**

The objective of this project is to help the auto shop organize, document and track its car sales business. This will be implemented by Speeding up processes, simplifying the recording and access of information and insuring the ease of use.

The auto shop is currently using file cabinets to store inventory, customers and sales records. This resulted in a huge paper trail that made accessing information and conducting new business consume a great amount of time and space.

The proposed system will consist of a database and a GUI interface that will allow the user (Auto Shop) to enter or retrieve inventory, customers and accounts information as well as make payments. The database will approximately consist of around 50 customers. Each class will have at most 6 attributes and the database will generate a minimum of 20 reports a month.

The desktop runs windows 7, which is sufficient to run the database. On the other hand, the hardware needs to be upgraded to accommodate the SQL database capabilities. Data transfer will be done manually and it will be housed in the desktop.

The GUI interface will be implemented using a swing and be comprised of simple buttons, text fields and check boxes.

**Requirements**

Table 1

|  |  |
| --- | --- |
| 1 | A customer may have none or many autos. |
| 2 | Every auto may have no customer or an account. |
| 3 | Every account may have none or one payment, but |
| 4 | every payment must be associated with an account. |
| 5 | Every customer must have an address. |
| 6 | Every auto must have a VIN, make, year, model and a color. |
| 7 | Every account may not have a balance or a payment. |
| 8 | Every balance must be linked to an account. |
| 9 | The system will generate reports and queries. |
| 10 | The database will accommodate 50 entries. |
| 11 | The whole system will be run on a desktop computer. |
| 12 | The data will not require to be integrated into a data warehouse. |
| 13 | A GUI will be the interface between the user and the database. |
| 14 | The database will have a combination of lock keys and passwords for access. |

**User Stories**

Table 2

|  |  |
| --- | --- |
| 1 | Record, organize each customer’s information. |
| 2 | Allow easy and fast access to customers’ information. |
| 3 | Expedite and streamline every transaction. |
| 4 | Only the manager will have a complete access to input, edit, view and delete data. |
| 5 | Other employees will only be able to view data and process payments. |
| 6 | Must be run locally. |
| 7 | Handle at least 30 accounts. |