## **Information Management System for a Motorcycle Dealership**

You have been tasked with developing the information management software for a Motorcycle Dealership (like Vehicle City Harley Davidson, etc.). The software we are developing will support all the departments including parts, service, and sales (we will skip the HR related activities). It will support the scheduling and managing of work orders for the service department as well as the scheduling of the mechanics for each job, an inventory management system, and anything else you can think of. Our system should allow the workers to ring-up special item orders, service orders, bike purchases, etc. They should be able to handle cash and credit transactions, and manage the inventory.

The software we are developing will support:

- 1.1 Point of sale system for the parts and merchandise department with various user screens
- 1.2 Point of sale system for the service department including a system for providing time estimates on common service and repairs
- 1.3 A credit card swiper for each of these
- 1.4 An external credit card authorization system
- 1.5 The sales system for used and new bike purchases
- 1.6 The financing system and the external connections to credit bureaus
- 1.7 A system for buying used bikes and then listing them for sale
- 1.8 A system for managing online advertising of bike inventory and any sales
- 1.9 An inventory management system for bikes and another for parts
- 1.10 And anything else you can think of.

Our system should allow the workers to:

- log cashiers in and out at the beginning and end of their shifts,
- a system to allow mechanics to log in time at beginning and end of each work order,
- process customer orders,
- handle cash, credit, and coffee card transactions,
- schedule work orders in the repair shop,
- allow the service manager to assign work orders to mechanics
- allow mechanics to mark the work order as begun, awaiting parts, and complete,
- keep track of all transactions,
- keep track of all items purchased in any transaction,

- know about all the different common services and items for sale,
- manage the bike inventory,
- manage the merchandise inventory,
- manage the parts inventory and order parts as needed for special repair jobs,