



# **MOUNT KENYA UNIVERSITY**

**SCHOOL OF PURE AND APPLIED SCIENCES  
DEPARTMENT OF INFORMATION TECHNOLOGY**

**PROJECT TITLE: GARAGE MANAGEMENT SYSTEM**

**BY: ROBERT ONYANGO**

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## CHAPTER ONE: PROJECT AREA

### 1.0 Introduction

2M Garage Company is a company that deals with the selling of vehicle spare parts, repairing and servicing of vehicles. Currently its operations are carried out manually. Some of the operations include manual registration of employees and customers. The company registers vehicles upon arrival, this involves specifying vehicles details, part(s) to be repaired, when you intend to pick it and also any other service you require.

There are three critical processes that are managed in any of the garage companies, this include employee management, customer management and spare parts management. Employee management involves employee registration, assignment of jobs and maintaining of employee information. Customer management involves customer registration, vehicle registration and maintaining customer and vehicle information. Spare parts management involves keeping track of purchased vehicle spare parts and remaining spare part records.

Some of the problems found in the garage company include;

- Loss of data as a result of wear and tear, fire outbreaks and misplacement of files.
- Generation of numerous errors as a result of manual recording of data by employees.
- Inefficiency as a result of taking too much time to look for particular data.

### 1.1 Problem Statement

Most of the garage companies use manual systems to manage their operations and processes. These manual systems are normally faced with quite a number of problems concerning vehicle parts and employee management. This problem includes;

**Data isolation**-Files kept and accessed in different locations of the garage and not being in one place.

**Time consuming**-because of manual recording of data which takes time to process information.

**Data redundancy**-duplicated data/information in several files.

**Data inconsistency**-Different copies of information regarding vehicles are not the same in different locations.