



**Final Year Project Report**  
**Production Management System**

By

**M. Hasan Salam**

**Bachelor of Software Engineering**

**DEPARTMENT OF COMPUTER SCIENCES & ENGINEERING**

**BAHRIA UNIVERSITY KARACHI**

**2008**

## ACKNOWLEDGMENT

I am indebted to **ALMIGHTY ALLAH**, Lord of our lives and everything in the universe and **HIS HOLY PROPHET MUHAMMAD (PEASE BE UPON HIM)**, whose Blessings enable me to perceive and pursue higher ideas of life.

I deem it is a great honor and privilege to records profound sense of gratitude to my supervisor **Sir. Faiz-ul-Haq** for his constructive criticism and valuable suggestion throughout the project. I am thankful to Major Omair Shaikh and Col Qazi Hasan for their valuable support and guidelines.

In addition, I wish to express my devotion to my Parents, Brothers and Sister and also to my friend for their encouragement.



## TABLE OF CONTENTS

<b>Topic</b>	<b>Pager No.</b>
1.1 Introduction.....	1
1.1.1 Structure of Report.....	1
1.2 Project Objectives.....	2
1.3 Purpose of the Project.....	2
1.4 Benefits of the Proposed System.....	2
1.5 Block Diagram of the System.....	3
1.6 Project Legacy.....	4
2.1 Background and Literature Review.....	5
2.1.1 Receive & Issue Department.....	5
2.1.2 Planning & Control Department.....	5
2.1.3 Central Production Office.....	6
2.1.4 Ordinance Store Section.....	6
2.2 Fleet Master.....	6
2.3 EZ Maintenance.....	6
2.4 Fleet Master Pro .....	6
2.5 Vehicle Maintenance System .....	7
2.6 Comparison .....	7
3.1 Aims and Statement of the Problem.....	8
3.1.1 Problem definition.....	8
3.1.2 Domain of the Project.....	8
3.1.3 Major Functions.....	9
4.1 Analysis and Design Departments.....	10
4.1.1 Departments .....	10
4.1.2 System Features.....	10
4.1.3 Use Case: Vehicle Information .....	14
4.1.4 Use Case: Inspection.....	17
4.1.5 Use Case: Distribution of Spare Parts to Departments...	20
4.1.6 Use Case: Demand for Purchase.....	23
4.1.7 Use Case: Progress of Vehicle.....	25
4.1.9 Data Objects .....	29
4.1.10 Major Inputs.....	31
4.1.11 Processing Functionality .....	31
4.1.12 Outputs.....	31
4.1.13 Special Usage Considerations.....	32
4.1.14 Users Profile .....	33
4.1.15 Design Phase .....	34
4.1.16 Software Process Model.....	39
5.1 Implementation .....	40
6. Graphical User Interface and User Manual .....	68
7. Future Work and Conclusion.....	94
8. References.....	95