

REGISTRATION: BSE193042

OBJECT ORIENTED PROGRAMING

WALI'S AUTOMATED WORKSHOP MANAGEMENT SOFTWARE

PROJECT PROPOSAL

SEMESTER#2

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CAPITAL UNIVERSITY OF SCIENCES & TECHNOLOGY

"Transform Your **Workshop into a **Profit Machine**"**



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Executive summary

Completely optimize your workshop and free up your time with an overflowing suite of versatile features that handle every aspect of your busy, hectic daily operations. Wali's Workshop Software frees up your time and transforms your business into a streamlined profit machine by managing and optimizing your entire workflow. Take back control of your workshop with ease. With multiple portals to make it easier for your Team to manage your business

Because In the Workshop business, time is your number 1 commodity. It's what you sell – and what makes or loses you money. Every minute of inefficiency due to lost paperwork, chasing customers, workflow bottlenecks, and juggling finances costs your bottom line.

This daily chaos leads to mistakes, missed reminders, and delayed services. When you're overwhelmed by the day-to-day, 'stuck on the tools' and time-poor, your profit and growth are shackled.

"Save Time. Retain More Customers. Make More Money".

Introduction

Pre-defined Elements:

These are settled by **BSE193042** in advance for context purposes

- **Employee Working shifts**
 1. Team A: (7:00AM-1:00PM)
 2. Team B: (1:00PM-5:00PM)
- **Employee salary**
 1. 1 hour = 150 PKR
 2. A Worker works for 5 hours maximum in a day:
150 PKR * 5 HOURS * 31 DAYS = 23,250 PKR
 3. 1 month salary = 23,250 PKR

All Features

Sign in feature/ Multiple Users

Daily order invoice reports

- Enter Customer Id
- Invoice number
- Enter Worker shift
- Order details/ Quantity of spare parts Used
- Services
- Net-total
- Discount status



- Discount to loyal customers on 3 consecutive visits

Employee hours

- Worker hours will be calculated on 1 hour = 150 PKR loss to the workshop

Worker overtime bonus

- Comparing time entered to team shift time
- 1 hour is 30 PKR [see pre-defined elements]
- Overtime will be proceeded to the admin account to carefully examine it, as it can motivate workers to work on one task for longer than it's required to exploit overtime benefits

Overall Profit/loss

- Profit and loss of after every invoice with upwards and downwards

Portals

- Employee Portal
- Customer's Portal
- Administrator Portal
- Spare parts Portal
- Associated Corporation Portal

Users who can use this software by Logging in their respective portal

- Employees
- Customers
- Administrators
- Associated Corporations

To ensure a seamless experience for everyone and to distinguish between different Users,

Wali's automated workshop uses a unique code for everyone

Users	Unicode
Employees	EMPXXXX
Customers	CUSTXXXX
Administrators	ADMINXXXX
Associated Corporations	ACORPSXXXX



Permissions and Inheritance Chart

Portal name	Can be accessed by
Employee Portal	• Employees • Administrator
Customer's Portal	• Employees • Administrator • Customers
Administrator Portal	• Administrator
Spare Parts Portal	• Employees • Administrator • Customers [Can only view some features] • Associated Corporation [Can only view some features]
Associated Corporation	• Employees • Administrator • Associated Corporations

Employee Portal

Wali's Automated Workshop Management Software Introduces Employee portal which features Employee management tools providing a unique set of tools that will help you improve employee engagement and enhance employee experience, ultimately reducing churn and improving profitability. So, what do you need to know to find the right tool that will fit your needs like a glove? Following are the features

- My login
- My badge
- My information
- My Leaves
- My Salary
- My Promotions
- My Customers
- My Corporations
- My Statistics
- Customer's Invoices



Customer's Portal

Wali's Automated Workshop Management Software Introduces Customer relationship management is an approach to managing a company's interaction with current and potential customers. It is used to improve business relationships with customers, specifically focusing on customer retention and ultimately driving sales growth.

- My Login
- My orders
- Total money spent
- Invoices and searching
- Feedback
- Adding Finance Information such as Bank details and credit card
- Their Respective Employee contact

Administrator Portal

- Adding, Modifying and deleting Customer's Information
- Adding, Modifying and deleting Employee's Information
- Removing an Employee
- Employee promotion approval
- Employee Leave approval
- Corporation Modifying, Removal, Addition
- Employee stats
- Searching
- Adding, Removing and Modification of Spare parts

Spare parts Portal

- Input values by Admin in with a price
- Edit option for manual input of spare parts
- Current availability status report

Associated Corporation Portal

- Association with the corporation can be accumulated to contracts, Contracts are mutual agreements between two companies.
- Total Money Spent
- Provide feedback
- Review your contracts attributes
- Propose a contract



Project Scope [Local]

Our Objectives with this management software and how will these services help Local workshops?

- ✓ Save time and stay organized while improving your productivity as well as increasing the operational efficiency of your business with our workshop management system. As opposed to the conventional, hard, inconvenient and unreliable register writing methods Pakistani workshops use these days
- ✓ The system includes all functions that you need to operate your automotive workshop. It is an all-inclusive, affordable, and user-friendly software solution. So that local Pakistanis can afford good systems at lower/local PKR value rather than in Dollars
- ✓ Our Management System guarantees that your system can be operated in harmony with your workshop to optimize task planning, service monitoring to increase your business profits.
- ✓ It's Helpful for Human Resources department to manage all teams on one Platform
- ✓ Identify Problem Areas quickly and easily: The workshop system starts by drawing your attention to key problem areas such as a particular category of vehicles or a site.
- ✓ Improved Utilization: Integration with Workshop system software enables you to plan repairs and maintenance in line with your transport operations to improve planning, maximize revenue and
- ✓ In-Depth Reporting: Live and comprehensive reporting facilities enable you to measure performance and profits with ease.
- ✓ Detailed reports Display: Report on different defect types so they can be analyzed by source (driver defect, remote defect, or inspection defect) including repeat defect reporting, life-time vehicle cost reporting, and vehicle warranties.
- ✓ Reports on labor costs of a vehicle, time sheets for reporting each item by staff members or by vehicle, estimated time to be taken for service, and report on cost changes over time.
- ✓ Invoice Billing: Converts services to invoices automatically. Minimizes duplication data entry. Includes payment methods such as cash.
- ✓ Customer Profile: View the customer list and update their details. View records of customer order history while managing and improving customer relationships. It will certainly help in making a good trust between the owner and the buyer
- ✓ Spare parts & Equipment Handling: Manage various inventory stocks and equipment. Support stocktaking and stock movement.



Requirements

- Platform: PC
- An Operating system
- A Minimum 32-bit operating system

Applications

Following are the Applicable industries in which we will sell our software. this can be positively achieved by tweaking the code according to the demands of different buyers

- ✓ Wholesale Shops
- ✓ Tire Outlets
- ✓ Caravan Repairers
- ✓ Retail shops
- ✓ Workshops
- ✓ Store managers
- ✓ Manufacturers