

# Agenda

Car Management System in Python using Data Structures

## Project Introduction

* Design and Analysis
* Further Expansion
* Working

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Our Project Focuses on:

* + Easy Ordering system for user

## Step by step ordering process

* + Management assistance for staff
    - Can be used to automate tasks
  + Simpler record keeping

Using Data Structure Techniques:

* + To effectively manage larger amounts of data
  + Provide an easy to implement approach

**Introduction**

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class Node:

def init (self): self.data = None self.next = None

class Queue:

def init (self): self.front = None self.rear = None

*Linked List based Circular Queue Implementation*

*Supports O(1) Insertion and Removal. Also helps to easily choose a specific order / remove it from the list*

Customizable Multithreading Functionality

* Separate orders are executed in parallel to decrease waiting time
* Orders are checked in advance before they are called for multithreading

Smart use of Python Data Structures help provide future expandability as well as good execution times

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**Features**

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**Streamlined ordering system for users**

Choose basic order type

* + Car Wash / Workshop Work

Choose specifics

* + - Customize Order / decide what you want

Order Added to a Queue

* Order Processed, Please wait for your turn

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