**Wheezly Technical Assessment**

**First Question:**

Please take a look for repository link [here](https://github.com/Osama-Daja/Car-Management).

You will find: Asp.net project, sql commands, database diagram.

**Second Question:**

To optimize data storage and retrieval, a caching strategy can be implemented based on the size of the data:

* Large Data: Store large datasets in a database. This approach supports complex operations and large-scale access patterns.
* Small Data: For smaller datasets, consider using lightweight storage solutions such as JSON files or hardcoding the data directly within the application.

This approach balances performance and resource utilization, ensuring an efficient caching mechanism tailored to the size and complexity of the data.

**Third Question:**

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**Forth Question:**

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**Fifth Question:**

 **Review the Bug Thoroughly**: Carefully read and analyze the bug to ensure a clear understanding of the issue.

 **Investigate the Code Area**: Examine the relevant section of the code. If the issue is within the area I was working on, I will make the necessary changes to fix the bug and conduct tests. If the issue pertains to another area, I will schedule a call with the team member who worked on that area to understand their changes and gather insights before proceeding with my fix.

 **Conduct Smoke Testing**: Perform smoke testing around the affected area to ensure that the changes did not unintentionally impact other parts of the system.

 **Consult with QA Team**: Schedule a call with Bill from the QA Department to verify that the bug has been properly addressed and resolved.

 **Submit the Pull Request**: Once the bug is fixed and verified, create the pull request for review.