PROJECT TITLE

Car Parking Management Software

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DATE OF SUBMISSION

18/11/23

EXECUTIVE	The Car Parking Management software was designed and
SUMMARY	implemented to provide a software to be used to manage the a carparking and provide service.
BACKGROUND	A digital medium of registering and storing data as well as managing a car parking in real time was required for an organization. Thus the need was fulfilled by the developers by the implementation of this software.
OBJECTIVES	The car parking management software should run on selected hardware to provide a digital management system for the authority to use to manage their parking facilities.
METHODOLOGY	Simple storage and editing the data of the car's managed by the facility was required. Different functions, class modules and text files were used in synchronization to develop the project.
RESOURCES	Any computer machine that supports python 3.10 or above can be used to deploy and maintain the software.

Description:

The Project is a Command-Line-Interface (CLI) based task scheduler with some basic feature implemented to function as a car parking management system. A Text file parsing was used to save the data on a text file. Different python functions were used to execute different functionalities of the software. 'Try except' was used for runtime error handling. Numerical choice based scrolling was used to navigate to different functionalities of the software. The software should provide a simple but effective user experience to the user.

Features:

- 1.Entry a vehicle: User can enter a vehicle credentials to store it at parking spot.
- 2. View Vehicle List: User can see the list of vehicles in the parking lot.
- 3. Sort: User Can sort vehicle list according to their name or registered time.
- 4. Edit Vehicle: User can edit stored vehicle details.
- 5. Search Vehicle: User can search Inventory with keyword related to parked vehicles.

- 6.Exit Vehicle: User can remove vehicle name from list.
- 7.Exit Program: User can exit the program.

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Parking System

Entry a Vehicle
View Vehicle List

     3. Sort
     4. Edit Vehicle
     5. Search Vehicle
     6. Vehicle Exit
     7. Exit Program
     Enter your choice (1-7): 3
     Choose sorting option:
     1. Sort by Name
     2. Sort by Entry Time
     Enter option (1 or 2): 1
     Vehicles sorted by name.

Name: BMW - Number: 11893 - Entry Time: 2023-11-18 15:09:52.278717
Name: Gran Tsurimo - Number: 44-758-1 - Entry Time: 2023-11-18 15:09:02.095710
Name: Honda Accord - Number: 2342343 - Entry Time: 2023-11-18 15:09:32.575527
Name: Hyundai - Number: 12113 - Entry Time: 2023-11-18 15:08:43.708287
Name: Pajero - Number: 112121 - Entry Time: 2023-11-18 15:09:15.925239
Name: nissan - Number: 21-111-5 - Entry Time: 2023-11-18 14:57:31.553316

    Parking System

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View Vehicle List

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     7. Exit Program
     Enter your choice (1-7):
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