

## **Option 1: Parking Lot Management Application**

Model a small parking lot with “n” slots. The N will be provided by the system's user.

The slots should be divided into the following sizes:

- Small (Small and compact car)
- Large (Full-size car)
- Oversize (SUV or Truck)

Manage available and filled slots. Support vehicle entry, exit, and status display.

All data can be kept in memory or in a file. A database is not necessary.

Use any programming language to build the application. The application can be command-line-based; a UI is not necessary, but it can be included if preferred.

Submit your response by putting it in a public GitHub repo. The repo should include

1. Short presentation explaining:

- Your approach and design
- Key files and folders
- Process to run, test, and verify.
- Include test data and seed data as required

2. Code for the application

Additionally, a hosted version of the app can also be submitted if preferred.

## **Option 2: Todo List Application**

Create a simple to-do list app that stores tasks in a file and supports adding, removing, and listing tasks. The application should have the capability to classify tasks into different categories.

Use any programming language to build the application. The application can be command-line-based; a UI is not necessary, but it can be included if preferred.

Submit your response by putting it in a public GitHub repo. The repo should include

1. Short presentation explaining:

- Your approach and design
- Key files and folders
- Process to run, test, and verify
- Include test data and seed data as required

2. Code for the application

Additionally, a hosted version of the app can also be submitted if preferred.