DOCUMENTATION

Functionality

* User can add Guitar by providing the details in the Inventory.
* User can also search the Guitar from the list of guitars by their Serial Number they have added.
* User can also fetch the total number of Guitars in their Inventory.

Concepts Used

**Object-Oriented Programming (OOP):**

* The guitar class encapsulates the guitar information and provides a ToString function to print Guitar details.
* The Inventory class manages the inventory of the guitar and provides various functions for adding, searching and printing guitar information.
* The IGuitarRepository Interface defines the different functions implemented in the Inventory.

Encapsulation

The Guitar class encapsulates the properties and methods hiding the guitar data.

Polymorphism

The ToString method in the Guitar class is a runtime polymorphism which overrides the ToString method which allows to print Guitar objects.

Abstraction

The IGuitarRepository interface abstracts the inventory mechanism by allowing to add, search and fetch methods definition.

Inheritance

The ElectricGuitar class extends the Guitar class and adds extra property No. of Pickups and that is implemented.