golang

day #3 assignment

Assignment #1

CLI based CRUD application

Create a struct called `Customer` with the following fields:

```
Id      int
Name    string
City    string
Email   string
Phone   string
```

Create another struct called `CustomerDAO` with a single field of slice of `Customer`. Provide the following methods for `CustomerDao`:

```go
func (dao *CustomerDAO) Add(cust Customer) {
    // add the customer to the slice of Customer
}
func (dao CustomerDAO) Get(id int) Customer {
    // returns the Customer based on id
}
func (dao *CustomerDAO) Update(cust Customer) {
    // updates the []Customer based on id of the customer
}
func (dao *CustomerDAO) Delete(id int) Customer {
    // returns the deleted Customer
}
func (dao CustomerDAO) GetAll() []Customer {
    // returns all Customer records
}
func (dao CustomerDAO) GetByCity(city string) []Customer {
    // returns all Customer records with the given city
}
func (dao CustomerDAO) SaveAsXML() {
    // saves all customer records into a file named `customers_xxxxx.xml`
    // where `xxxxx` is the current timestamp
}
func (dao CustomerDAO) SaveAsJSON() {
    // saves all customer records into a file named `customers_xxxxx.json`
    // where `xxxxx` is the current timestamp
}
func (dao CustomerDAO) LoadFromFile(filename, filetype string) {
    // loads data from a JSON or XML file into the `[]Customer`
    // maintained by this DAO class
}
```

Using this, create a CLI based menu-driven Go application that provides the following menu option:

1. Load data from JSON/XML file
2. Add new customer
3. View all customers
4. Search customers by city
5. Delete a customer (by id)
6. Search customer by id and edit/update details
7. Exit