Developing Internet based Information Systems 2

Ex 1



1. **Create a class called Flat with:**

The following properties:

* Id
* City
* Address
* Price (in dollars)
* Number of rooms
* A static list called FlatsList

The following methods:

* Insert - which inserts a flat into the flatList, and returns true for success or false for failure (\*).
* Read - which returns the flatList.
* Discount – It is called when entering a value into the Price property. Every flat with more than 1 room and price over 100$ gets a 10% discount.

(\*) Id should be unique, verify it doesn’t already exist in the List. In case it does, return false.

Create a controller called FlatsController

* Handle the Post and Get methods
* Add a method using Query string that will return all the flats in a city under a certain price

Test the API using Swagger

1. Create a class called Vacation with:

The following properties

* Id
* UserId
* FlatId
* StartDate (yy-mm-dd)
* EndDate (yy-mm-dd)
* A static list called OrdersList

The following methods:

* Insert - which inserts an order into the orderList, and returns true for success or false for failure (\*\*). Note that you cannot rent an apartment in days it is already rented.
* Read - which returns the orderList.

(\*\*) Id should be unique, verify it doesn’t already exist in the List. In case it does, return false.

Create a controller called OrdersController

* Handle the Post and Get methods
* Add a routing to a method that will return all the orders between start and end dates : getByDates/startDate/endDate

Test the API using Swagger

**Submission Instructions**

Everything excluding the red requirements is for next week. The red requirements are for the week after.

Publish and upload your project to the server under test2/tar1.

Submit a zip containing the files in the following structure:

/Controllers

* FlatsController
* OrdersController

/Models

* Flat
* Order

Send the zip to ruppinserver@gmail.com, title ex1 #groupName (e.g. ex1 #igroup56) and a link to your swagger api.

Enjoy, Anat & Benny