Developing Internet based Information Systems 2

Ex 2



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 vacationsList

The following methods:

* Insert - which inserts a vacation into the vacationsList, 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 vacationsList.

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

Create a controller called vacationsController

* Handle the Post and Get methods
* Add a routing to a method that will return all the vacations 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
* VacationsController

/Models

* Flat
* Vacation

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

Enjoy, Anat & Benny