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Description of interactions between tiers:

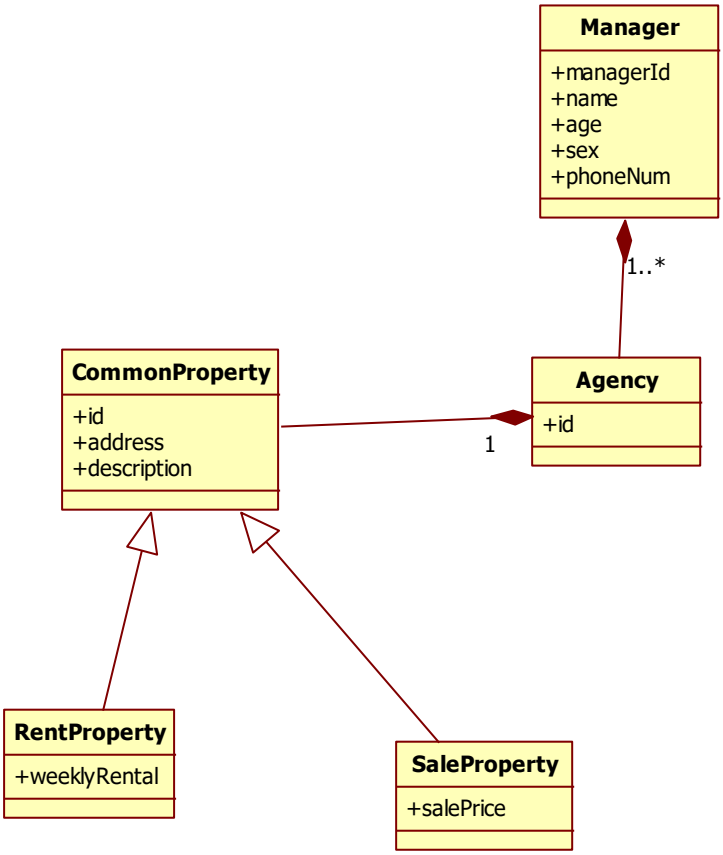
There contains 3 tiers in this application. Persistence tier, business tier, presentation tier. Persistence tier is the bottom tier. It makes contact with the database. Basically one entity one table.But there is an special, CommonProperty Entity. It used Joined-subclass strategy and it has two sub Entity: SaleProperty, Rent Property. The feature of persistence tier is each change reflect on the persistence tier will also effect to the database. For the business tier, it's the most important tier that contains all the business service. All the logic that the e-business system should have all contains in this tier. In this tier, we use Ejb to implement. There are 4 Ejbs: ManagerBean, AgencyBean, RentBean, SaleBean . It calls the persistence tier to save the states. For examples, there is an method in AgencyBean named getAgencyByName(), the logic of this method is just calling an HSQL defined in Entity Agency and get the result. For the presentation tier, there are mainly two types. One is JSF used to show the form and page. The other is managed bean used to control the page direction and also call the necessary method define in business tier. A complete flow from foreground and background is: 1. Client input the necessary information on new Manager page and want to create a new Manager. 2. After client click submit, the related ManagedBean(ManagerManagedBean) will be fired and call the business tier ManagerBean to create the new Manager. 3. In the managerBean. It call 'entityManager.persist(Manager)' to synchronize the Entity to the related table.

Description of page navigations

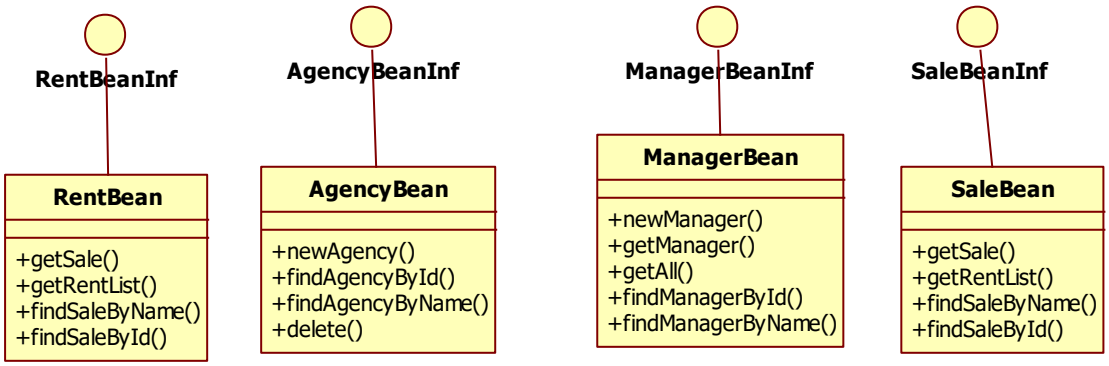
There is a main page named index.xhtml. All the other JSF pages can be directed from this page. The index.xhtml contains all the links to manage Sale, Rent, Manager and Agency. It's the entrance. For search Page, when user input an Id or name, then will direct to the list all page with param type=? , then the list all page will just list the related Object. For new page, when user input the necessary information and click submit then will direct the result page to show if it is an successful operation.

One Architecture

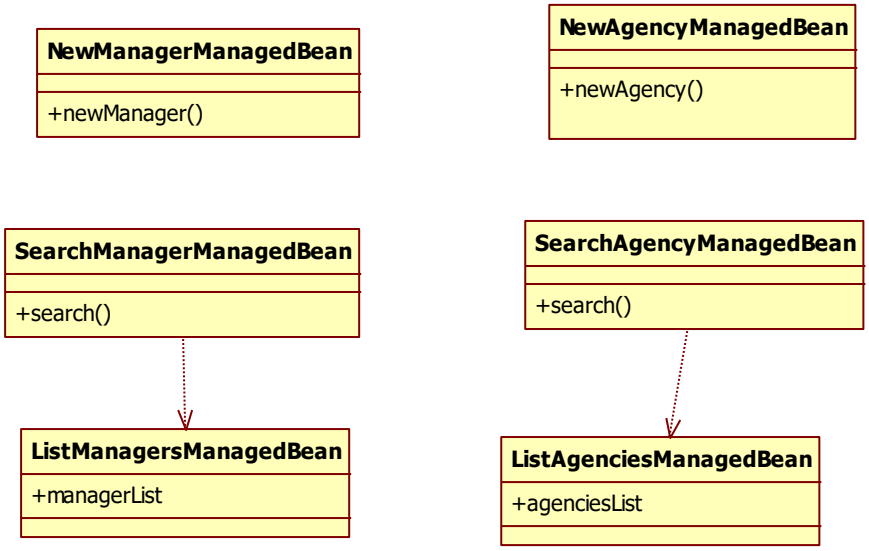
1. Diagram of entities



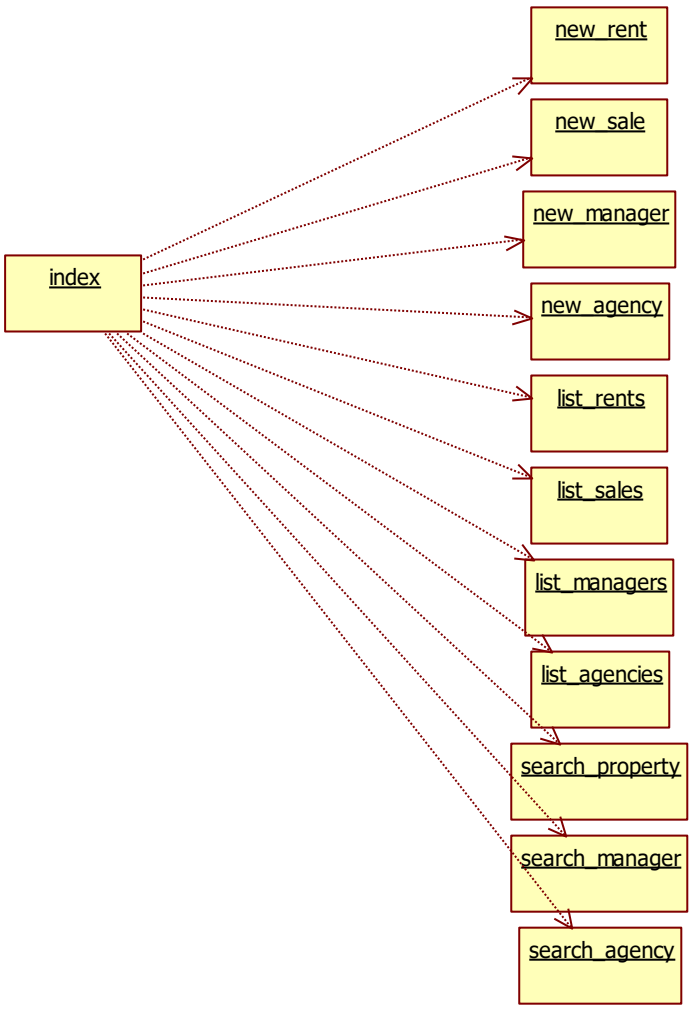
2. Diagram of EJBs



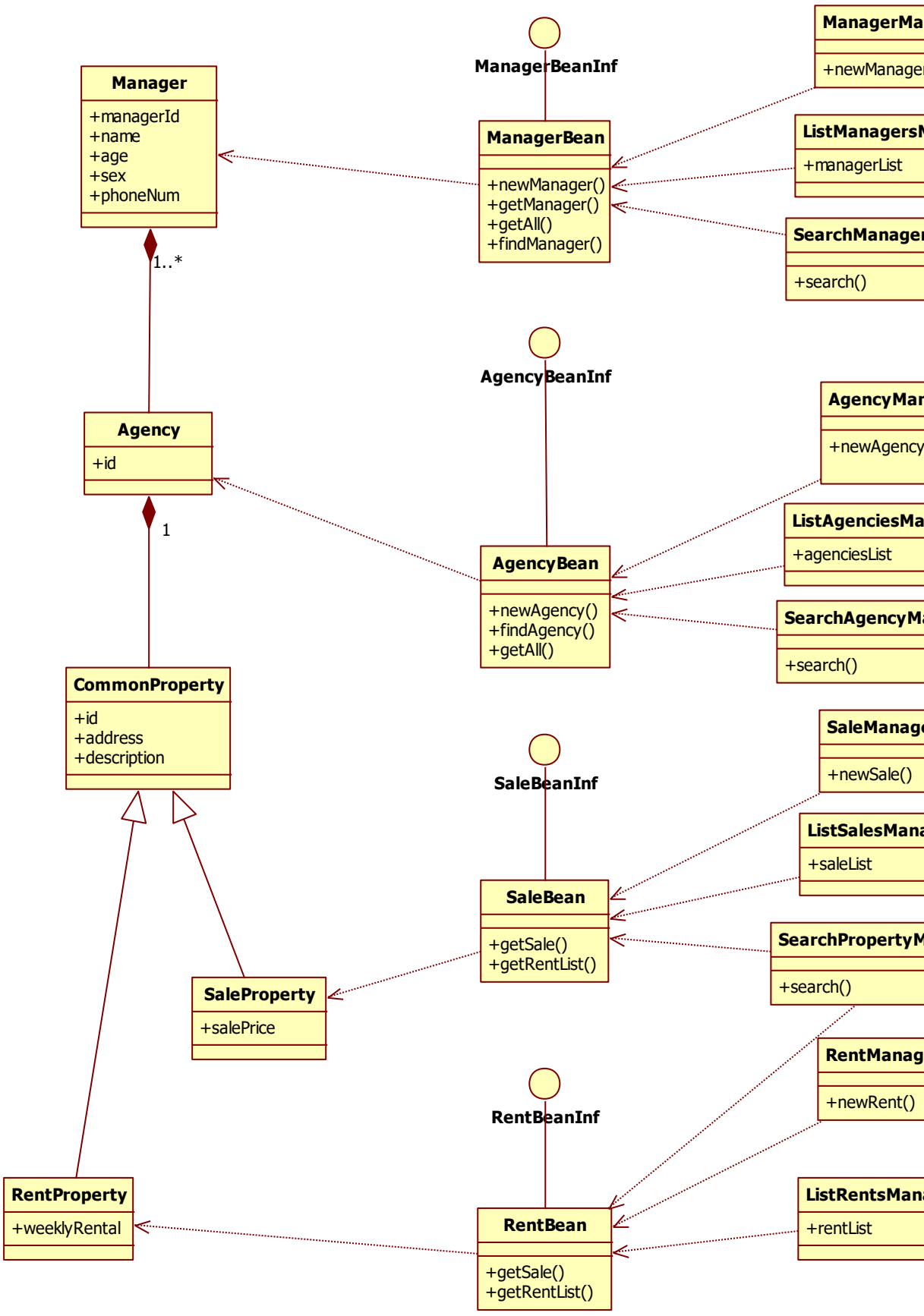
3. Diagram of ManagedBeans



4. Diagram of JSF:



5. Diagram of all Architecture


Manager
+managerId
+name
+age
+sex
+phoneNum
1..*
ManagerBeanInf
ManagerBean
+newManager()
+getManager()
+getAll()
+findManager()
ManagerMa
+newManager
ListManagersM
+managerList
SearchManager
+search()
Agency
+id
1
AgencyBeanInf
AgencyBean
+newAgency()
+findAgency()
+getAll()
AgencyMan
+newAgency
ListAgenciesMa
+agenciesList
SearchAgencyMa
+search()
CommonProperty
+id
+address
+description
SaleBeanInf
SaleBean
+getSale()
+getRentList()
SaleManage
+newSale()
ListSalesMana
+saleList
SearchPropertyM
+search()
SaleProperty
+salePrice
RentBeanInf
RentBean
+getSale()
+getRentList()
RentManag
+newRent()
ListRentsMan
+rentList
RentProperty
+weeklyRental

Two. Test

1. Index.jsp

Go to Home Page

Estate business system

Part 1

new sale
new rent
list all sales
list all rents
search property

Part 2

new manager
list all managers
search manager

Part 3

new agency
list all agencies
search agency

Last updated: 2013

2. new sale
3

3.

Go to Home Page

Create new Sale

Name: sale1

Address: sale1

Description: sale1

sale price: 100

Submit

Last updated: 2013

3. Result:

4. new Rent

Go to Home Page
Create new rent
Name: rent1
Address: rent1
Description: rent1
weekly rental price: 200
Submit
Last updated: 2013

6. List sales

7. Search property

8. New manager

9. List managers

Go to Home Page

List Managers

id	name
1	manager1

ast updated: 2013

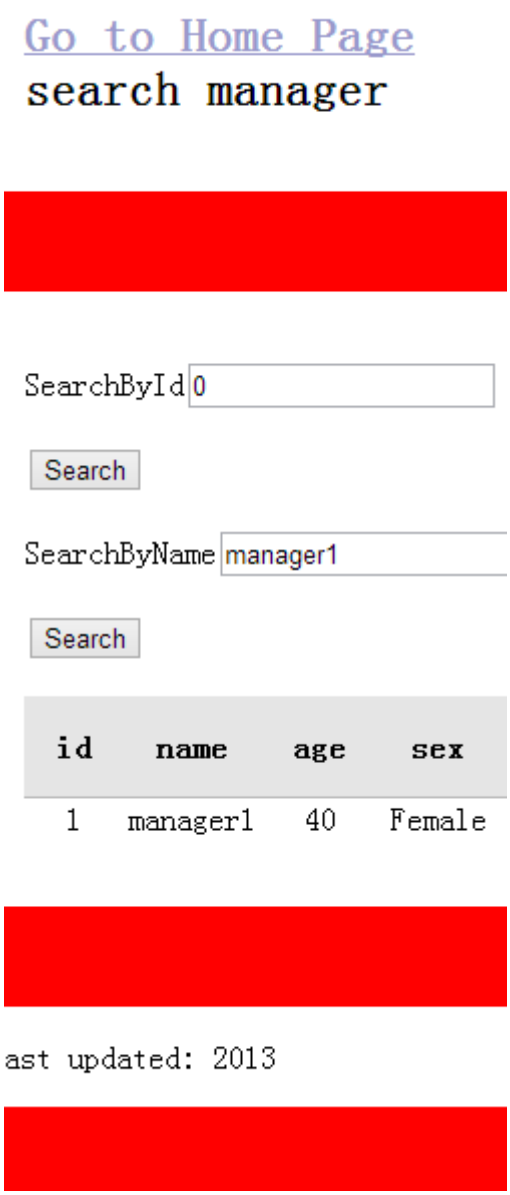
Go to Home Page

List Managers

id	name	age	sex	phoneNum
1	manager1	40	Female	

Last updated: 2013

10 . Search managers



10. New agency

11. List agencies

12. Search agency

Go to Home Page

Search agency

Search By id: 1

Search

Search By name:

Search

id	name	manager id	properties id
1	Agency1	manager1	sale1

ast updated: 2013