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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 a 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
Two. Test

1. Index.jsp
Go to Home Page
Estate business system

Part 1

new_sale
new_rent
list_all_sales
list_all_rent
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.
3. Result:

**Go to Home Page**

**Result**

Save Sale: sale1 successfully!

**Last updated: 2013**

4. new Rent
Create new rent

Name: rent1
Address: rent1
Description: rent1
Weekly rental price: 200

Submit

Last updated: 2013

6. List sales
### Search property

<table>
<thead>
<tr>
<th>id</th>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>sale1</td>
</tr>
<tr>
<td>3</td>
<td>sale2</td>
</tr>
</tbody>
</table>

Last updated: 2013
8. New manager
Go to Home Page
Create new Manager

Name: manager1
Age: 40
Sex:
  ○ Male
  ○ Female
PhoneNum: 0

Submit

Last updated: 2013

9. List managers
<table>
<thead>
<tr>
<th>id</th>
<th>name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>manager1</td>
</tr>
</tbody>
</table>

Last updated: 2013
10. Search managers

Go to Home Page
search manager

<table>
<thead>
<tr>
<th>id</th>
<th>name</th>
<th>age</th>
<th>sex</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>manager1</td>
<td>40</td>
<td>Female</td>
</tr>
</tbody>
</table>

last updated: 2013

10. New agency
Go to Home Page
Create new Agency

Name: agency1
Manager: 1-manager1
Properties: 1-sale1
            3-sale2
            2-rent1

List updated: 2013

11. List agencies
| 1 | manager1 | sale1 |   | Delete Agency |

**Last updated:** 2013

12. Search agency
Search by id: 1

Search

Search by name:

Search

<table>
<thead>
<tr>
<th>id</th>
<th>name</th>
<th>manager id</th>
<th>properties id</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agency1</td>
<td>manager1</td>
<td>sale1</td>
</tr>
</tbody>
</table>

Last updated: 2013