**ProviderDirectory Class Member Functions**

(1) public int addServiceInfo(ServiceInfo item)

This method will add a new ServiceInfo in ProviderDirectory

{

*Call base class List member function to add this object*

serviceItems.add(item);

return true; //Notion: ManagerAccount class must create a new Provider first

}

(2)public int deleteProvider(Iterator iterator)

This method will delete the ServiceInfo from ProviderDirectory

{

Call base class List member function to delete the object

Iterator.remove();

return true;

} //Notation: ManageService class should find the iterator first

(3)public Iterator getServiceItems()

This method just return serviceItems’ iterater

(4) public void writeObject(ObjectOutputStream output)

This method will write this object into data file

(5) public void readObject(ObjectInputSteam input)

This method will load data from input file

{

ProviderDirectory should be singleton, so if this list is not null, just return

If(providerList != null) return;

else reading data from data file

providerList = (ProviderList) input.readObject();

}

(6) public static ProviderDirectory instance()

This method keep this class’s object being singleton

{

If providerDirectory is null, return a new one;

Else just return providerList.

}

(7) public string ToString()

This method will return all information of the whole Providerdirectory

{

return all information of

}