**1.Provider Class Member Functions**

(1)public string getStatus()

This method just returns Provider’s status information

(2) public void setStatus(string status)

This method just assigns status to update it.

(3)public string ToString()

This method just return all information of the Provider

{

Return ToString() from base class + status information

}

**2. ProviderList class Member Functions**

(1) public int addProvider(Provider provider)

This method will add a new Provider in ProviderList

{

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

providers.add(provider);

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

}

(2)public int deleteProvider(Iterator iterator)

This method will delete the Provider from ProviderList

{

Call base class List member function to delete the object

Iterator.remove();

return true;

}

(3)public Iterator getProviders()

This method just return providers’ 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

{

ProviderList 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 ProviderList instance()

This method keep this class’s object being singleton

{

If providerList is null, return a new one;

Else just return providerList.

}

**3. ServiceInfo Class member Functions**

(1) public int getServiceCode()

This method will return serviceCode of this serviceInfo object

(2) public string getServiceName()

This method will return service name of this serviceInfo object

(3) public float getServiceFee()

This method will return service fee of this serviceInfo object

(4) public int setServiceCode(int code)

This method will set service code with parameter

(4) public int setServiceName(string name)

This method will set service name with parameter

(5) public int setServiceFee(float fee)

This method will set service fee with parameter

(6) public string ToString()

This method will return all information of this object of the class

**4. 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

}