**1.Provider Class Member Functions**

(1)public Iterator getServiceList()

This method just returns the iterator of serviceList

(2)public string ToString()

This method just return all information of the Provider as a string

**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;

}

(2)public int deleteProvider(int providerID)

This method will delete the Provider from ProviderList

{

Use the providerID to find the specific Provider

Call base class List member function to delete the object

while(not the end of Iterator)

Provider = (Provider)iterator;

if(providerID = = provider.get(providerID))

Iterator.remove();

return true;

return false;

}

(3)public int updateProvider(string name,int ID, string streetAddress,

string city, string state,int ZIPcode)

this method will update the information for Provider with ID

{

Use the set functions to change the information for the provider.

}

(4) public List getProviders()

This method will return providerList

(5) 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;

}

(2)public int deleteServiceItem(int serviceCode)

This method will delete the ServiceInfo from ProviderDirectory

{

Use the serviceCode to find the specific serviceInfo

Call base class List member function to delete the object

while(not the end of Iterator)

serviceInfo = (ServiceInfo)iterator;

if(serviceCode = = serviceInfo.get(serviceCode))

Iterator.remove();

return true;

return false;

}

(3)public List getServiceItems()

This method just return serviceItems

(4) public ServiceInfo updateServiceInfo(string name,int ID,string streetAddress,

string city, string state,int ZIPcode)

This method will update the information by using set functions.

(5) 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.

}

(6) public string ToString()

This method will return all information of the whole Providerdirectory