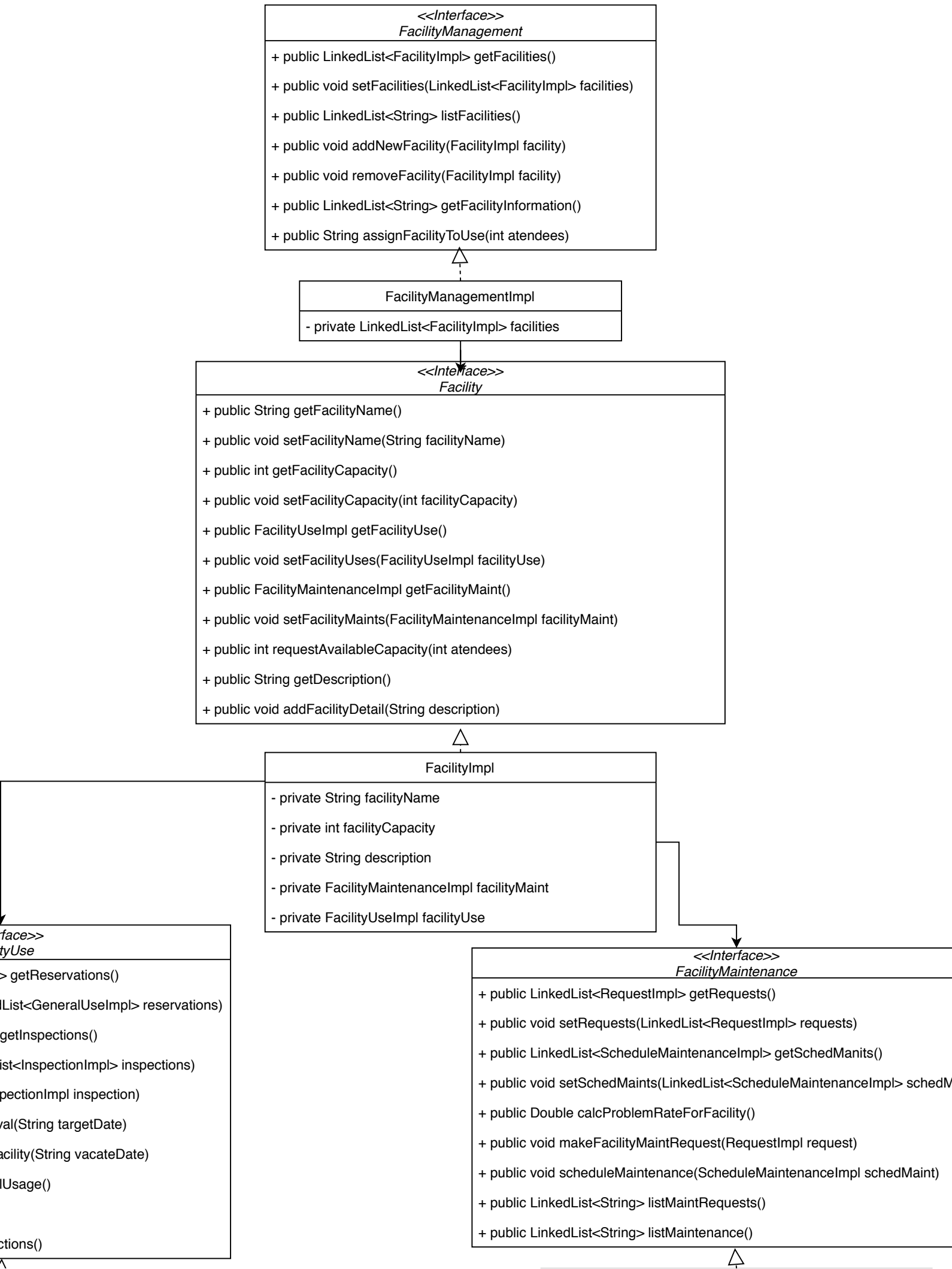| <<Inter |
|---|
| Facili |
| + public LinkedList<GeneralUseImpl> |
| + public void setReservations(Linked |
| + public LinkedList<InspectionImpl> |
| + public void setInspections(LinkedLi |
| + public void scheduleInspection(Insp |
| + public boolean isInUseDuringInterv |
| + public LinkedList<String> vacateFa |
| + public LinkedList<String> listActua |
| + public Double calcUsageRate() |
| + public LinkedList<String> listInspec |

UML Diagram

<<Interface>>
FacilityManagement

+ public LinkedList<FacilityImpl> getFacilities()

+ public void setFacilities(LinkedList<FacilityImpl> facilities)

+ public LinkedList<String> listFacilities()

+ public void addNewFacility(FacilityImpl facility)

+ public void removeFacility(FacilityImpl facility)

+ public LinkedList<String> getFacilityInformation()

+ public String assignFacilityToUse(int atendees)

FacilityManagementImpl

- private LinkedList<FacilityImpl> facilities

<<Interface>>
Facility

+ public String getFacilityName()

+ public void setFacilityName(String facilityName)

+ public int getFacilityCapacity()

+ public void setFacilityCapacity(int facilityCapacity)

+ public FacilityUseImpl getFacilityUse()

+ public void setFacilityUses(FacilityUseImpl facilityUse)

+ public FacilityMaintenanceImpl getFacilityMaint()

+ public void setFacilityMaints(FacilityMaintenanceImpl facilityMaint)

+ public int requestAvailableCapacity(int atendees)

+ public String getDescription()

+ public void addFacilityDetail(String description)

FacilityImpl

- private String facilityName

- private int facilityCapacity

- private String description

- private FacilityMaintenanceImpl facilityMaint

- private FacilityUseImpl facilityUse

---

face>>
tyUse

> getReservations()

lList<GeneralUseImpl> reservations)

getInspections()

ist<InspectionImpl> inspections)

pectionImpl inspection)

val(String targetDate)

acility(String vacateDate)

lUsage()

ctions()

<<Interface>>
FacilityMaintenance

+ public LinkedList<RequestImpl> getRequests()

+ public void setRequests(LinkedList<RequestImpl> requests)

+ public LinkedList<ScheduleMaintenanceImpl> getSchedManits()

+ public void setSchedMaints(LinkedList<ScheduleMaintenanceImpl> schedM

+ public Double calcProblemRateForFacility()

+ public void makeFacilityMaintRequest(RequestImpl request)

+ public void scheduleMaintenance(ScheduleMaintenanceImpl schedMaint)

+ public LinkedList<String> listMaintRequests()

+ public LinkedList<String> listMaintenance()

laints)

```
FacilityU
- private LinkedList<Gene
- private LinkedList<Inspe
```

```
<<Interface>>
GeneralUse
+ public String getResDate()
+ public void setResDate(String resDate)
```

```
GeneralUseImpl
- private String resDate
```

```
                                    ┌─────────────────────────────────────────────────────────┐
                                    │              FacilityMaintenanceImpl                      │
                                    ├─────────────────────────────────────────────────────────┤
                                    │ - private LinkedList<RequestImpl> requests                │
                                    │ - private LinkedList<ScheduleMaintenanceImpl> schedMaints  │
                                    └─────────────────────────────────────────────────────────┘
```

UseImpl

eralUseImpl> reservations

ectionImpl> inspections

<<Interface>>
Inspection
+ public String getInspectionDate()
+ public void setInspectionDate(String inspectionDate)

<<Interface>>
Request
+ public String getMaintRequest()
+ public void setMaintRequest(String maintRequest)

RequestImpl
- private String maintRequests

InspectionImpl
- private String inspectionDate

<<Interfa...
ScheduleMa...
+ public String getMaintDate()
+ public void setMaintDate(String...
+ public int getDownTime()
+ public void setDownTime(int d...
+ public Double getMaintCost()
+ public void setMaintCost(Doub...
+ public int calcDownTimeForFac...
+ public Double calcMaintenance...

ScheduleMai...
- private String...
- private int d...
- private Doub...

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├───────────────────────┤
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│ g maintDate)           │
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│ ownTime)               │
│                        │
│                        │
│ le maintCost)          │
│                        │
│ cility(int estimate)   │
│                        │
│ eCostForFacility(int estimate) │
└───────────────────────┘
                 △
                 ┊
                 ┊
┌───────────────────┐
│ ntenanceImpl      │
├───────────────────┤
│ g maintDate       │
│                   │
│ ownTime           │
│                   │
│ le maintCost      │
└───────────────────┘
```