```
Model::Class Diagram
                                                                                                                                               BuildingInfoApplication
                                                                                                                                            +main(Strings[] args)
                                                                                                                                                                                            BuildingInfo
                                                                                                     BuildingInfoController
                                                                                               roomMap: Map<String>
                                                                                                                                                                  +area()
+Info()
+getId()
                                                                                                                                                        InterfaceComposite
                                                                                                                                                                                            ComponentLocation
                                                                                                                                                                            +getId: String
+getName: String
                                                                                                                                                                              +addLocation(ComponentLocation location)
                                                                                                                                                                                                                                                                                                                                                                           LocationVisitor InterfaceVisitor
                                                                                                                                                                               removeLocation(ComponentLocation location)
                                                                                                                                                                             +calculateTotalArea()
+calculateTotalVolume()
                                                                                                                                                                                                                                                                                                                                                                 +visit(Room room)
                                                                                                                                                                                                                                                                                                                                                                 visit(CompositeBuilding comBuild)
                                                                                                                                                                             +calculateTotalHeatingEnergy()
+calculateTotalLightingPower()
                                                                                                                                                                                                                                                                                                                                                                +visit(CompositeFloor comFloor)
                                                                                                                                                                                                                                                                                                                                                                                VisitorArea
                                                                                                                                                                                                                                                                                                                                                                                                                                      VisitorLighting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VisitorVolume
                                                                                                                             Room
                                                                                                                                                                                                              CompositeBuilding
                                                                                                                                                                                                                                                                                         CompositeFloor
                                                                                                                                                                                                                                                                                                                                                                  +visit(Room room)
                                                                                                                                                                                                                                                                                                                                                                                                                          +visit(Room room)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     +visit(Room room)
                                                                                                                                                                                              -id: String
                                                                                                                                                                                                                                                                       -id: String
                                                                                                   -id: String
                                                                                                                                                                                                                                                                                                                                                                  +visit(CompositeFloor comFloor)
+visit(CompositeBulding comBuilding)
                                                                                                                                                                                                                                                                                                                                                                                                                          +visit(CompositeFloor comFloor)
+visit(CompositeBuilding comBuilding)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     +visit(CompositeFloor comFloor)
+visit(CompositeBuilding comBuilding)
                                                                                                                                                                                              -name: String
-listOfLevels: List<ComponentLocation>
                                                                                                                                                                                                                                                                       -name: String
                                                                                                    -name: String
-height: double
-length: double
                                                                                                                                                                                                                                                                       -listOfRooms: List<ComponentLocation>
                                                                                                                                                                                              +getId()
+getName()
+addLocation(ComponentLocation location)
                                                                                                                                                                                                                                                                       +getId()
+getName()
+addLocation(ComponentLocation location)
                                                                                                     -width: double
                                                                                                    +aetId()
                                                                                                                                                                                              +removeLocation(ComponentLocation location)
+calculateTotalArea()
                                                                                                                                                                                                                                                                       +removeLocation(ComponentLocation location)
+calculateTotalArea()
                                                                                                    +getName()
+addLocation(ComponentLocation location)
                                                                                                                                                                                              +calculateTotalVolume()
                                                                                                                                                                                                                                                                       +calculateTotalVolume()
                                                                                                    +removeLocation(ComponentLocation location)
+calculateTotalArea()
                                                                                                                                                                                               +calculateTotalHeatingEnergy()
                                                                                                                                                                                                                                                                        +calculateTotalHeatingEnergy()
                                                                                                                                                                                              +calculateTotalLightingPower()
                                                                                                                                                                                                                                                                       +calculateTotalLightingPower()
                                                                                                     +calculateTotalVolume()
                                                                                                    +calculateTotalHeatingEnergy()
+CalculateTotalLoghtingPower()
```