

Person
-id:Long -type:String -name:String -description:String
getters/setters

Person_Organization
-id:Long -person:Person -organization:Organization -startDate:LocalDate -endDate:LocalDate
getters/setters

Person_Sighting
-id:Long -person:Person -sighting:Sighting
getters/setters

Person_Power
-id:Long -person:Person -power:Power
getters/setters

Organization
-id:Long -name:String -description:String -location:Location
getters/setters

Sighting
-id:Long -location:Location -sightingDate:LocalDate -description:String
getters/setters

Power
-id:Long -name:String
getters/setters

Location
-id:Long -latitude:Double -longitude:Double -name:String -description:String -street:String -city:String -state:String -zip:String -country:String
getters/setters

<<Interface>> PersonDao

<<Interface>> PersonOrganizationDao
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<<Interface>> PersonSightingDao

<<Interface>> PersonDao
+create(Person):Person +read(Person):Person +update(Person):void +delete(Person):void +retrieveAllPersonsByOrg(int,int):List<Person> +retrieveAllPersons(int , int):List<Person> +retrieveAllPersonsByPower(Power,int,int):List<Person> +retrieveAllPersonsBySighting(sighting,int,int):List<Person> +retrieveAllPersonsByLocation(Location,int,int):List<Person>

<<Interface>> PersonPowerDao
+create(PersonPower):PersonPower +read(PersonPower):PersonPower +update(PersonPower):void +delete(PersonPower):void +retrieveAllPersonPowers(int, int):List<PersonPower>

<<Interface>> PowerDao
+create(Power):Power +read(Power):Power +update(Power):void +delete(Power):void +retrieveAllPowers(int, int):List<Power> +retrieveAllPowersByPerson(Person, int, int):List<Power>

<<Interface>> PersonOrganizationDao
+create(PersonOrganization):PersonOrganization +read(PersonOrganization):PersonOrganization +update(PersonOrganization):void +delete(PersonOrganization):void +retrieveAllPersonOrganization(int,int):List<PersonOrganization>

<<Interface>> OrganizationDao
+create(Organization):Organization +read(Organization):Organization +update(Organization):void +delete(Organization):void +retrieveAllOrganizations(int,int):List<Organization> +retrieveAllOrganizationsByPerson(Person,int,int):List<Organization>

<<Interface>> LocationDao
+create(Location):Location +read(Location):Location +update(Location):void +delete(Location):void +retrieveAllLocations(int,int):List<Location> +retrieveAllLocationsByPerson(Person,int,int):List<Location>

<<Interface>> PersonSightingDao
+create(PersonSighting):PersonSighting +read(PersonSighting):PersonSighting +update(PersonSighting):void +delete(PersonSighting):void +retrieveAllPersonSightings(int,int):List<PersonSighting>

<<Interface>> SightingDao
+create(Sighting):Sighting +read(Sighting):Sighting +update(Sighting):void +delete(Sighting):void +retrieveAllSightings(int, int):List<Sighting> +retrieveAllSightingsByPerson(Person, int, int):List<Sighting> +retrieveAllSightingsByLocation(Location, int, int) +retrieveAllSightingsByDate(LocalDate, int, int)

PersonDaoImpl
+create(Person):Person

PersonOrganizationDaoImpl
+create(PersonOrganization):PersonOrganization

PersonSightingDaoImpl
+create(PersonSighting):PersonSighting

+create(Person):Person +read(Person):Person +update(Person):void +delete(Person):void +retrieveAllPersonsByOrg(int,int):List<Person> +retrieveAllPersons(int , int):List<Person> +retrieveAllPersonsByPower(Power,int,int):List<Person> +retrieveAllPersonsBySighting(sighting,int,int):List<Person> +retrieveAllPersonsByLocation(Location,int,int):List<Person>

+create(PersonOrganization):PersonOrganization +read(PersonOrganization):PersonOrganization +update(PersonOrganization):void +delete(PersonOrganization):void +retrieveAllPersonOrganizations():List<PersonOrganization>

PersonSightingDaoImpl
+create(PersonSighting):PersonSighting +read(PersonSighting):PersonSighting +update(PersonSighting):void +delete(PersonSighting):void +retrieveAllPersonSightings():List<PersonSighting>

PersonPowerDaoImpl
+create(PersonPower):PersonPower +read(PersonPower):PersonPower +update(PersonPower):void +delete(PersonPower):void +retrieveAllPersonPowers():List<PersonPower>

OrganizationDaoImpl
+create(Organization):Organization +read(Organization):Organization +update(Organization):void +delete(Organization):void +retrieveAllOrganization():List<Organization> +retrieveAllOrgsByPerson(Person):List<Organization>

SightingDaoImpl
+create(Sighting):Sighting +read(Sighting):Sighting +update(Sighting):void +delete(Sighting):void +retrieveAllSightings(int, int):List<Sighting> +retrieveAllSightingsByPerson(Person, int, int):List<Sighting> +retrieveAllSightingsByLocation(Location, int, int) +retrieveAllSightingsByDate(LocalDate, int, int)

PowerDaoImpl
+create(Power):Power +read(Power):Power +update(Power):void +delete(Power):void +retrieveAllPowers():List<Power> +retrieveAllPowersByPerson(Person):List<Power>

LocationDaoImpl
+create(Location):Location +read(Location):Location +update(Location):void +delete(Location):void +retrieveAllLocations(int,int):List<Location> +retrieveAllLocationsByPerson(Person,int,int):List<Location>

PersonServiceImpl
-personDao:PersonDao
+create(Person):Person +read(Person):Person +update(Person):void

PersonOrganizationServiceImpl
-personOrganizationDao:PersonOrganizationDao
+create(PersonOrganization):PersonOrganization

PersonSightingServiceImpl
-personSightingDao:PersonSightingDao

+create(Person):Person +read(Person):Person +update(Person):void +delete(Person):void +retrieveAllPersonsByOrg(int,int):List<Person> +retrieveAllPersons(int , int):List<Person> +retrieveAllPersonsByPower(Power,int,int):List<Person> +retrieveAllPersonsBySighting(sighting,int,int):List<Person> +retrieveAllPersonsByLocation(Location,int,int):List<Person>

+create(PersonOrganization):PersonOrganization +read(PersonOrganization):PersonOrganization +update(PersonOrganization):void +delete(PersonOrganization):void +retrieveAllPersonOrganization():List<PersonOrganization>

-personSightingDao:PersonSightingDao
+create(PersonSighting):PersonSighting +read(PersonSighting):PersonSighting +update(PersonSighting):void +delete(PersonSighting):void +retrieveAllPersonSightings():List<PersonSighting>

PersonPowerServiceImpl
-personPowerDao:PersonPowerDao
+create(PersonPower):PersonPower +read(PersonPower):PersonPower +update(PersonPower):void +delete(PersonPower):void +retrieveAllPersonPowers():List<PersonPower>

OrganizationServiceImpl
-organizationDao:OrganizationDao
+create(Organization):Organization +read(Organization):Organization +update(Organization):void +delete(Organization):void +retrieveAllOrganization():List<Organization> +retrieveAllOrgsByPerson(Person):List<Organization>

SightingServiceImpl
-sightingServiceDao:SightingServiceDao
+create(Sighting):Sighting +read(Sighting):Sighting +update(Sighting):void +delete(Sighting):void +retrieveAllSightings(int, int):List<Sighting> +retrieveAllSightingsByPerson(Person, int, int):List<Sighting> +retrieveAllSightingsByLocation(Location, int, int) +retrieveAllSightingsByDate(LocalDate, int, int)

PowerServiceImpl
-powerDao:PowerDao
+create(Power):Power +read(Power):Power +update(Power):void +delete(Power):void +retrieveAllPowers():List<Power> +retrieveAllPowersByPerson(Person):List<Power>

LocationServiceImpl
-locationDao:LocationDao
+create(Location):Location +read(Location):Location +update(Location):void +delete(Location):void +retrieveAllLocations(int,int):List<Location> +retrieveAllLocationsByPerson(Person,int,int):List<Location>