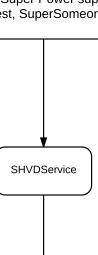
SHVDController

- +createLocation (HttpServletRequest request) : String
- +createOrganization (HttpServletRequest request): String
- +createSighting (HttpServletRequest request) : String
- +createSuperPower (HttpServletRequest request): String
- +createSuperSomeone (HttpServletRequest request): String
- +deleteLocation (HttpServletRequest request): String
- +deleteOrganization (HttpServletRequest request): String
- +deleteSighting (HttpServletReguest reguest): String
- +deleteSuperPower (HttpServletRequest request): String
- +deleteSuperSomeone (HttpServletRequest request): String
- +displayHomePage (Model model): String
- +displayLocationDetails (HttpServletRequest request, Model model): String
- +displayLocationEditPage (HttpServletRequest request, Model model): String
- +displayLocationsPage (Model model): String
- +displayOrganizationDetails (HttpServletRequest request, Model model): String
- +displayOrganizationEdit (HttpServletRequest request, Model model): String
- +displayOrganizationPage (Model model): String
- +displaySightingDetails (HttpServletRequest request, Model model): String
- +displaySightingEdit (HttpServletReguest reguest, Model model) : String
- +displaySightingPage (Model model): String
- +displaySuperPowerEdit (HttpServletRequest request, Model model): String
- +displaySuperPowersPage (Model model): String
- +displaySuperSomeoneDetails (HttpServletRequest request, Model model): String
- +displaySuperSomeoneEdit (HttpServletRequest request, Model model): String
- +displaySuperSomeonePage (Model model): String
- +editLocation (Location location): String
- +editOrganization (HttpServletRequest request, Organization organization): String
- +editSighting (HttpServletRequest request, SightingData sightingData): String
- +editSuperPower (HttpServletRequest request, Super Power superPower): String
- +editSuperSomeone (HttpServletRequest request, SuperSomeone superSomeone): String



Spencer Shandonay SHVD UML

SHVDServiceImpl +addLocation (Location location): void +addOrganization (Organization organization): void +addSightingData (SightingData sightingData): void +addSuperPower (SuperPower superPower): void +addSuperSomeone (SuperSomeone superSomeone): void +deleteLocation (int locationID): void +deleteOrganization (int organizationID): void +deleteSightingData (int superSomeoneSightingDataID): void +deleteSuperPower (int superPowerID) : void +deleteSuperSomeone (int superSomeoneID) : void +getAllLocations(): List<Location> +getAllOrganizations(): List<Organization> +aetAllSuperPowers(): List<SuperPower> +getAllSuperSomeoneSightings: List<SightingData> +getAllSuperSomeones : List<SuperSomeone> +getAllSuperSomeonesByLocation (int locationID): List<SuperSomeone> +getAllSuperSomeonesByPower (int superPowerID): List<SuperSomeone> +getLocationByID (int locationID): Location +getLocationsByIDs (String[] locationIDs): List<Location> +getLocationsOfSightingsBySuperSomeoneID(int superSomeoneID): List<Location> +getOrganizationByID(int OrganizationID): Organization +getOrganizationsBySuperSomeone(int superSomeoneID): List<Organization> +getOrganizationsBySuperSomeone(int superSomeoneID): List<Organization> +getRecentSuperSomeoneSightings(int numberOfSuperSomeoneSightings): List<SightingData> +getSightingDataByID(int sightingDataID): sightingData +getSightingsBvSuperSomeone(int SuperSomeoneID): List <SightingData> +getSuperPowerByID(int superPowerID) : SuperPower +getSuperPowerByIDs(String [] superSomeoneIDs): List<SuperSomeone> +showTopSightings(): List<SightingData> +updateLocation(Location location) +updateOrganization(Organization organization) +updateSightingData(SightingData sightingData) +updateSuperPower(SuperPower superPower) +updateSuperSomeone(SuperSomeone superSomeone) +updateSuperSomeoneSuperPowers(SuperSomeone superSomeone, List<Integer> superPowerIDs)



SHVDDaoJdbcTemplateImpl

```
+addLocation (Location location): void
+addOrganization (Organization organization): void
+addSightingData (SightingData sightingData): void
+addSuperPower (SuperPower superPower): void
+addSuperSomeone (SuperSomeone superSomeone): void
+deleteLocation (int locationID): void
+deleteOrganization (int OrganizationID): void
+deleteSightingData (int superSomeoneSightingDataID): void
+deleteSuperPower (int superPowerID) : void
+deleteSuperSomeone (int superSomeoneID): void
+findLocationsForOrganization(Organization organization): List<Location>
+getAllLocations(): List<Location>
+getAllOrganizations(): List<Organization>
+getAllSightingData(): List<SightingData>
+getAllSuperPowers(): List<SuperPower>
+getAllSuperSomeones(): List<SuperSomeone>
+getAllSuperSomeonesByLocation(int locationID): List<SuperSomeone>
+qetAllSuperSomeonesBvPower(int superPowerID): List<SuperSomeone>
+getLocationByID(int locationID): Location
-getLocationForSightingData(SightingData sightingData): Location
+getLocationsBySuperSomeoneID(int superSomeoneID): List<Location>
-getLocationsForOrganization(Organization organization): List<Location>
+getLocationsOfSightingsBvSuperSomeoneID(int superSomeoneID): List<Location>
-getMembersForOrganization(Organization organization): List<SuperSomeone>
+getOrganizationByID(int organizationID): Organization
+getOrganizationsByLocationID(int locationID): List<Organization>
+getOrganizationsBvSuperSomeone (int superSomeoneID): List<Organization>
+getRecentSuperSomeoneSightings(int numberOfSuperSomeoneSightings): List <SightingData>
+getSightingDataByID(int SuperSomeoneSightingDataID): SightingData
+getSightingsBySuperSomeone(int SuperSomeoneID): List<SightingData>
+getSuperPowerByID(int superPowerID) : SuperPower
-getSuperPowersOfSuperSomeone(SuperSomeone superSomeone): List<SuperPower>
+getSuperSomeoneBvID(int superSomeoneID) : SuperSomeone
-getSuperSomeoneForSightingData(SightingData sightingData): List<SuperSomeone>
+getSuperSomeoneSightingsByDate(LocalDate date): List<SightingData>
+getSuperSomeonesByLocationID(int locationID): List<SuperSomeone>
-insertOrganizationLocation(Organization organization): void
-insertOrganizationMember(Organization organization): void
-insertSuperSomeoneSuperPower(SuperSomeone superSomeone): void
-linkMembersAndLocationsWithOrganization(List<Organization> organizationList): List<Organization>
-linkSuperHeroAndLocationWithSightingData(List<SightingData> sightingList): List<SightingData>
-linkSuperPowersWithSuperSomeones(List<SuperSomeone> superSomeoneList): List<SuperSomeone>
-saveSighting(SightingData sightingData): void
+setJdbcTemplate(JdbcTemplate idbcTemplate): void
+showTopSightings(): List<SightingData>
+updateLocation(Location location): void
+updateOrganization (Organization organization): void
+updateSightingData(SightingData sightingData): void
+updateSuperPower(SuperPower superPower): void
+updateSuperSomeone(SuperSomeone superSomeone): void
```

Model: Location

+getLocationCity() : String
+getLocationCountry() : String
+getLocationDescription() : String

+getLocationID(): int

+getLocationLatitude(): BigDecimal +getLocationLongitude(): BigDecimal

+getLocationName : String
+getLocationState : String
+getLocationStreet : String

+setLocationCity(String locationCity): void

+setLocationCountry(String locationCountry): void

+setLocationDescription(String locationDescription): void

+setLocationID(int locationID): void

+setLocationLatitude(BigDecimal locationLatitude): void +setLocationLongitude(BigDecimal locationLongitude): void

+setLocationName(String locationName): void +setLocationState (String locationStreet): void +setLocationStreet (String locationStreet): void

Model: Organization

Model: Organization

+getLocationList(): List<Location>

+getMemberList() : List<SuperSomeone>

+getOrganizationContact() : String

+getOrganizationDescription(): String

+getOrganizationID(): int

+getOrganizationName() : String

+getOrganizationType() : String

+setLocationList(List<Location> locationList): void

+setMemberList(List<SuperSomeone> memberList) : void

+setOrganizationContact (String organizationContact): void

+setOrganizationDescription (String organizationDescription): void

+setOrganizationID (int organizationID): void

+setOrganizationName (String organizationName) : void

+setOrganizationType (String organizationType): void

Model: SightingData

Model: SightingData +getLocation(): Location +getLocationID(): int

+getSuperSomeoneSightingList(): List<SuperSomeone>

+getSuperSomeoneSightingDate() : LocalDate +getSuperSomeoneSightingDescription() : String

+setLocation(): Location location +setLocationID(): int locationID

+setSuperSomeoneSightingList(List<SuperSomeone> superSomeoneList): void +setSuperSomeoneSightingDate(LocalDate superSomeoneSightingDate): void

 $+ set Super Someone Sighting Description (String\ super Someone Sighting Description): void$

Model: SuperSomeone

+getSuperPowerList(): List<SuperPower>

+getSuperSomeoneAlias(): String

+getSuperSomeoneDescription(): String

+getSuperSomeoneID(): int

+getSuperSomeoneName(): String

+getSuperSomeoneType() : String

+setSuperPowerList(List<SuperPower> superPowerList): void

+setSuperSomeoneAlias(String superSomeoneAlias) : void

 $+ set Super Some one Description (String\ super Some one Description): void$

+setSuperSomeoneID(int superSomeoneID): void

+setSuperSomeoneName(String superSomeoneName) : void

+setSuperSomeoneType(String superSomeoneType): void

Model: SuperPower

+getSuperPowerDescription(): String

+getSuperPowerID(): int

+getSuperPowerName() : String

+setSuperPowerDescription(String superPowerDescription): void

+setSuperPowerID(int superPowerID): void

+setSuperPowerName(String superPowerName): void