## pkgadmin

## AdminServiceImpl

- db : Database
- users : Map<String,UserSummary>
- + AdminServiceImpl(database:

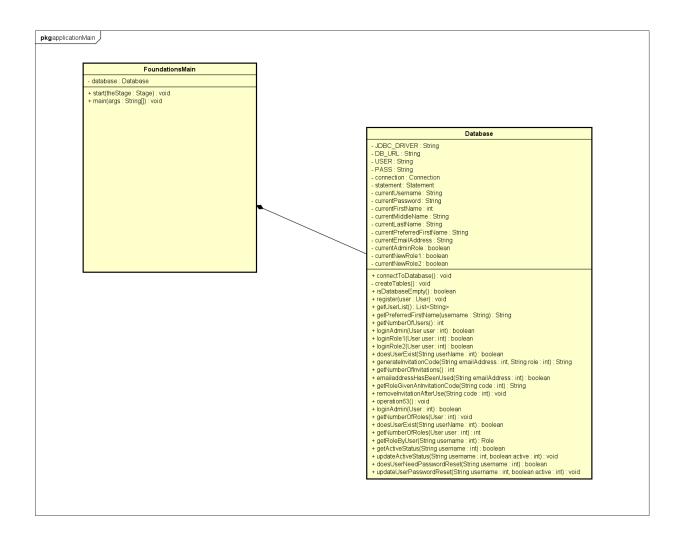
Database): void + listUsers(): void + setActive(): void

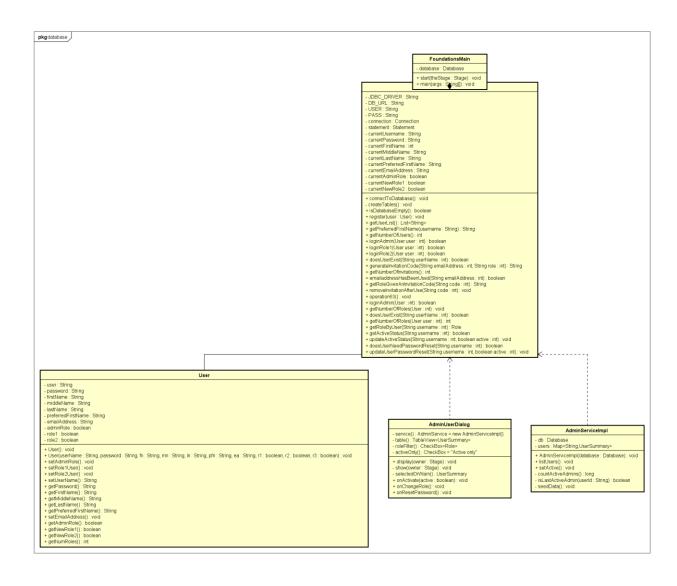
- countActiveAdmins(): long
- isLastActiveAdmin(userId : String) :

boolean

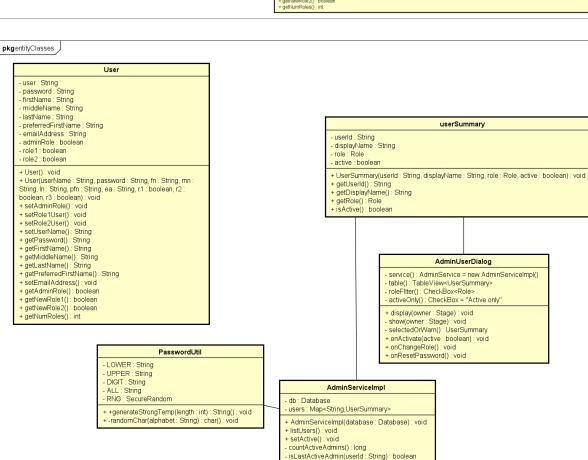
- seedData(): void

## pkgadmin Database JDBC\_DRIVER : String DB\_URL : String USER : String PASS : String connection : Connection statement : Statement currentUsername: String currentPassword : String - currentFirstName : int currentMiddleName : String currentLastName : String - currentPreferredFirstName : String currentEmailAddress : String - currentAdminRole : boolean - currentNewRole1 : boolean - currentNewRole2 : boolean + connectToDatabase(): void createTables(): void + isDatabaseEmpty(): boolean + register(user : User) : void + getUserList(): List<String> + getPreferredFirstName(username : String) : String + getNumberOfUsers(): int + loginAdmin(User user : int) : boolean + loginRole1(User user : int) : boolean + loginRole2(User user : int) : boolean + doesUserExist(String userName : int) : boolean + generateInvitationCode(String emailAddress: int, String role: int): String + getNumberOfInvitations(): int + emailaddressHasBeenUsed(String emailAddress: int): boolean + getRoleGivenAnInvitationCode(String code: int): String + removelnvitationAfterUse(String code: int): void + operation63(): void + loginAdmin(User : int) : boolean + getNumberOfRoles(User:int): void + doesUserExist(String userName : int) : boolean + getNumberOfRoles(User user : int) : int + getRoleByUser(String username : int) : Role + getActiveStatus(String username : int) : boolean + updateActiveStatus(String username : int, boolean active : int) : void + doesUserNeedPasswordReset(String username: int): boolean + updateUserPasswordReset(String username: int, boolean active: int): void AdminServiceImpl - db : Database users: Map<String,UserSummary> + AdminServiceImpl(database : Database) : void + listUsers(): void + setActive(): void - countActiveAdmins(): long - isLastActiveAdmin(userId : String) : boolean seedData(): void userSummary PasswordUtil - userld : String - LOWER : String - displayName : String - UPPER : String role : Role - DIGIT : String active : boolean ALL : String + UserSummary(userId : String, displayName : String, role : Role, active : boolean) : void - RNG : SecureRandom + getUserId(): String + getDisplayName(): String + +generateStrongTemp(length:int): String(): void + -randomChar(alphabet: String): char(): void + getRole(): Role + isActive() : boolean









seedData(): void