

Users

User
#userData: Map<String, Object>
+User(firstName: String, lastName: String, email: String, password: String) +User(firstName: String, lastName: String, email: String) +isValid(): boolean +getFirstName(): Object +getLastName(): Object +getEmail(): Object +getRole(): Object +getProperties(): Object #getPassword(): Object

Client
+Client(firstName: String, lastName: String, email: String, password: String, birthYear: String) +isValid(): boolean +getBirthYear(): Object

Landlord
+Landlord(firstName: String, lastName: String, email: String, password: String, address: String) +isValid(): boolean +getAddress(): Object

InvitationHandler
-manager: PropertyMgr -property: Property
+InvitationHandler(manager: PropertyMgr, landlord: Landlord, property: Property) +sendInviteToManager(): void

PropertyMgr
-invitations: ArrayList<String>
+PropertyMgr(firstName: String, lastName: String, email: String, password: String) +isValid(): boolean +getInvitations(): List<String> +addInvitation(propertyId: String): void +removeInvitation(propertyId: String): void +clearInvitations(): void

User Factory and Helper

UserCreator
~context: Context ~firestore: FirebaseFirestore
+UserCreator(activeContext: Context): UserCreator #add(user: User): boolean +doesExist(email: String): boolean

Hashing
~context: Context
+Hashing(context: Context): Hashing +hashPassword(password: char[], salt: byte[]): SecretKey +generateSalt(): byte[] +verifyPassword(salt: byte[], passwordPlainText: String, password: SecretKey): boolean

creates

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Properties

Property
#propertyData: Map<String, Object>
+Property(address: String, type: String, floor: String, numRoom: String, numBathroom: String, numFloor: String, area: String, laundry: Boolean, numParkingSpot: String, rent: String, utilities: String, landlord: String, manager: String) +Property(address: String, type: String, floor: String, numRoom: String, numBathroom: String, numFloor: String, area: String, laundry: Boolean, numParkingSpot: String, rent: String, utilities: String, landlord: String, manager: String, client: String) +isValid(): boolean +getAddress(): String +getType(): String +getFloor(): String +getNumRoom(): String +getNumBathroom(): String +getNumFloor(): String +getArea(): String +getLaundry(): Boolean +getNumParkingSpot(): String +getRent(): String +getUtilities(): String +getLandlord(): String +getManager(): String +getClient(): String