Attributes UML

ManagementSystemController

- PORT: int
- serverSocket: ServerSocket
- databaseController: Database(
- pool: ExecutorService
- + communicateWithClient(): voic
- + printlPInfo(): void

<<Interface>> **DatabaseCredentials**

- + JDBC_DRIVER: String
- + DB_URL: String
- + USERNAME: String
- + PASSWORD: String

<<Interface>> Observer

+ update(newListing: Listing): void

Manager

- + getPeriodicalReport(): PeriodicalRepo
- + getEntityInfo(): Entity

RegisteredRenter

- databaseModel: DatabaseModel
- + update(listing: Listing): void

<<Interface>>

Fee

- + amount: double + period: int
- + changeAmount(amt: double): void
- + changePeriod(days: int): void

ServerCommunicationController

- aSocket: Socket
- socketln: ObjectInputStream
- socketOut: ObjectOutputStream
- serverController: ServerController
- + run(): void @override
- + communicate(): void
- + sendListingsToClient(): void
- + sendEntityToClient(): void
- + verifyLogin(): void
- + createUniqueInputStream(): void
- + addListingToDB(): void
- + removeListingFromDB(): void
- + editListingInDB(): void

<<Interface>>

DatabaseAccessQueries

- + SQL_GET_LISTINGS: String
- + SQL_GET_LISTING: String
- + SQL_GET_USER: String
- + SQL_EDIT_LISTING: String
- + SQL_ADD_LISTING: String
- + SQL_ADD_USER: String
- + SQL REMOVE USER: String
- + SQL_REMOVE_LISTING: String

DatabaseController

- myConnection: Connection
- databaseModel: DatabaseModel
- + initializeConnection(): void
- + closeConnection(): void

<<Interface>> Observable

- + addObserver(Observer o): void
- + removeObserver(Observer o): void
- + notifyAllObservers(): void

User

- # username: String # password: String
- # email: String
- # identity: String
- + compareUser(User: user): boolean
- + getIdentity(): String

DatabaseModel

- myConnection: Connection
- observers: ArrayList<Observer>
- + verifyUser(user: User): boolean
- + addUser(user: User): void
- + getListingsFromDB(): ArrayList<Listing>
- + getUserFromDB(): User
- + editListingInDB(Listing listing): void
- + removeListingFromDB(Listing listing): void
- + addObserver(Observer o): void
- + removeObserver(Observer o): void
- + notifyAllObservers(): void
- + addListingToDB(): void

Listing

- type: String
- numOfBedrooms: int
- numOfBathrooms: int
- furnished: boolean
- quadrant: String
- state: String
- fee: double
- + addListing(listing: Listing): void
- + removeListing(listing: Listing): void

Landlord

- listings: ArrayList<Listing>
- + addListing(listing: Listing): void
- + removeListing(listing: Listing): void

ClientCommunicationController

- socketOut: ObjectOutputStream
- aSocket: Socket
- socketIn: ObjectInputStream - loginController: Controller - emailController: Controller - mainController: Controller
- searchListingController: Controller
- listingsController: Controller
- createListingController: Controller
- + main(args: String[]): void
- + showMainWindow(): void + showEmailView(): void
- + showSearchListingView(): void
- + showListingsView(): void
- + showCreateListingView(): void

LoginController

- loginView: LoginView - verified: boolean
- + loginListen(): void

Controller

clientCommunicationController: ClientCommunicationController

EmailController

- emailView: EmailView
- + sendEmailListen();

MainController

- mainView: MainView
- + searchListingListen(): void
- + editListingListen(): void
- + unsubscribeListen(): void + createListingListen(): void
- + getPeriodicalReportListen(): void
- + changeFeeListen(): void
- + viewEntityListen(): void

- user: User
- + isVerified(): boolean

SearchListingController

- searchListingView: SearchListingView
- + searchListingListen();

ListingsController

- listingsView: ListingsView
- + selectListingListen(): void

PeriodicalReportView

- components: Components
- + display(): void
- + hide(): void

PeriodicalReportController

- periodicalReportView: PeriodicalReportView
- + createReportListen(): void

PeriodicalReport

- numOfHousesListed: int
- numOfHousesRented: int
- numOfActiveListings: int
- listings: ArrayList<Listing>
- startDate: Date - endDate: Date

ListingsView

- components: Components
- + display(): void
- + hide(): void

EmailView

- components: Components
- + display(): void
- + hide(): void

- SearchListingView
- components: Components
- + display(): void
- + hide(): void

CreateListingView

- components: Components
- + display(): void
- + hide(): void

LoginView

- components: Components
- + display(): void
- + hide(): void

- CreateListingController
- createListingView: CreateListingView
- + createListingListen(): void

RenterMainView

- components: Components
- + display(): void
- + hide(): void

- LandlordMainView
- components: Components
- + display(): void
- + hide(): void

ManagerMainView

- components: Components
- + display(): void
- + hide(): void

MainView

- components: Components
- + display(): void
- + hide(): void