











# C.Specfication#1

# - loginController: LoginController

+ LoginForm():void

onlyInstance:LoginForm

- + setOnlyInstance(onlyInstance: LoginForm): void + getOnlyInstance(): LoginForm
- + login(username: String, password: String): User + newAccount(username: String, password: String): User

## User #role: String +setRole(role: String): void +getRole(): String

## LoginController

- dbmsConnection: Connection
- + login(username: String, password: String): User
- + newAccount(username: String, password: String): User
- + setConnection(dbmsConnection: Connection): void + getConnection(): Connection

LoginForm



#### Renter

- name: String
- criteria: PropertySearchForm
- + Renter()
- + sendEmail(): void
- + setName(name: String): void
- + setPropertySearchForm(criteria: PropertySearchForm): void
- + getName(): String
- + getPropertySearchForm(): PropertySearchForm

# C.Specfication#2

#### RegisteredRenter

- p: PropertyControllerInterface
- listing: Property
- + RegisteredRenter()
- + update(newListing: Property):void+display():void
- + RegisteredRenter(p:PropertyControllerInterface)
- + setPropertyControllerInterface(p: PropertyContollerInterface): void
- + setProperty(listing: Property): void
- + getPropertyControllerInterface(): PropertyControllerInterface
- + getProperty(): Property

#### <<interface>> **PropertyControllerInterface**

+unsubscribe(v:Viewer):void +notifyTargetRenters():void +register(v: Viewer): void

#### **PropertyController**

- dbmsConnection: Connection
- viewers: ArravList<Viewer>
- newListing: Property
- + PropertyController()
- + setViewers(viewers: ArrayList<Viewer>): void
- + setProperty(newListing: Property): void
- + getViewers(): ArrayList<Viewer>
- + getProperty(): Property
- + setConnection(dbmsConnection: Connection): void
- + getConnection(): Connection
- + unsubscribe(v: Viewer): void+addListing(listing: Property): void
- +notifyTargetRenters():void
- +register(v: Viewer): void
- +PropertyController(listing: Property)
- +registerProperty(address: String, houseType: String, numberOfBedrooms: int,
  - numberOfBathrooms: int, furnishStatus: String, cityQuadrant: String, fee: double): void
- + changeListingState(propertyID: String, status: String): void
- +payFee(): void
- + findMatches(houseType: String, numberOfBedrooms: int,
  - numberOfBathrooms: int, furnishStatus: String, cityQuadrant: String): ArrayList<Property>

#### <<interface>> Viewer

+update(newListing:Property): void

#### **Property**

- houseID: int
- address: String
- houseType: String
- numberOfBedrooms: int
- numberOfBathrooms: int
- furnishStatus: String
- cityQuadrant: String
- landlord: Landlord - feeStatus: boolean
- propertyStatus: String
- + setHouseID(houseID: String): void
- + setAddress(address: String): void
- + setHouseType(houseType: String): void
- + setNumberOfBedrooms(numberOfBedrooms: int): void
- + setNumberOfBathrooms(numberOfBathrooms: int): void
- + setFurnishStatus(furnishStatus: String): void
- + setCityQuadrant(cityQuadrant: String): void
- + setLandlord(landlord: Landlord): void
- + setFeeStatus(feeStatus: boolean): void
- + setPropertyStatus(propertyStatus: String): void
- + getHouseID(): String
- + getAddress(): String
- + getHouseType(): String
- + getNumberOfBedrooms(): int
- + getNumberOfBathrooms(): int
- + getFurnishStatus(): String
- + getCityQuadrant(): String
- + getLandlord(Landlord): Landlord
- + getFeeStatus(): boolean
- + getPropertyStatus(): String



# C.Specfication#3

### Manager

- name: String
- propertyForm: PropertyForm
- + Manager()
- + setName(name: String): void
- + getName(): String
- + setPropertyForm(propertyForm: PropertyForm): void
  - + getPropertyForm(): PropertyForm

#### DatabaseController

- dbmsConnection: Connection
- feePeriod: intfeeAmount: double
- + DatabaseController()+ setConnection(dbmsConnection: Connection): void
- + getConnection(): Connection
- + setFeeAmount(fee: double): void
- + setFeePeriod(): int + getFeeAmount(): double
- + getFeePeriod(period: int): void
- + createSummary(period: int): void + getRenters(): void
- + getLandlords(): void
- + getProperties(): void+ changeListingState(propertyID: string,status: string): void
- PropertyForm

## - database: DatabaseController

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- + PropertyForm(): void
- + setDatabase(database: DatabaseController): void + getDatabase(): DatabaseController
- + createSummary(period: int): void
- + getRenters(): void
- + getRenters(): void + getLandlords(): void
  - + getProperties(): void
  - + changeListingState(propertyID: string,status: string): void



