Admin
-createUser(): void
-deleteUser(): void

post-standard
-rentUnit(): void

rent-standard
-rentUnit() : void

full-standard
-rentUnit(): void

Logout
-Logout (user : User)

-ParseRequest : String

Login
-username : String
-userType: String
+Login()

+GnerateUsername (username : String) : User
+ReadUsername : void
+Exists (username : String) : boolean
+setUserType(UserType): void
+ getUserType(): UserType

User
-username : String
-userType: String

+User (String)

Post
-rentalName : String
-cityName: String
-rentalPrice : double
-numBedrooms: int
- numNights: int

+ParseRequest : String
+getrentalUnit(): String
+setDescription (String) : void
+addrentalUnit (): void

Search
-cityName : String
-rentalPrice : double
-numBedrooms: int

+getrentalPrice(): void
+getDescription (String): void

Transaction

Rent
-userType: boolean
-unitAvailability: boolean

+ getUserType(): UserType
+rentalUnit (): void

Create
-username : String
-userType : String
+ Create (user : User)

+ParseRequest : String
+ReadUsermame : void
+Exists (username : String) : boolean

Delete
+usernane : String
+Delete (user : User)

+ParseRequest : String
+DeleteUser: void

TransactionFileRecordValidator

-usernameLength: int

-cityLength: int

-userTypeLength: int

-rentalIdLength: int

-numBedroomsLength: int

-remainingNightsLength: int

-rentalPriceLength: int

+TransactionFileRecordValidator()

RentalUnit

-id: String

-rented: boolean

-user: User

-city: String

-numBedrooms: int

-price: double

-remainingNights: int

+RentalUnit(String, boolean, User, String, int, double, int)

+setId(String): void

+getId(): String

-generateId(): String

+setRented(boolean): void

+isRented(): boolean

+setCity(String): void

+getCity(): String

+setPrice(double): void

+getPrice(): double

+setNumBedrooms(int): void

+getNumBedrooms(): int

+setRemainingNights(int): void

+getRemainingNights(): int

TransactionFileWriter

-filePath: String

+TransactionFileWriter(String)

+setFilePath(String): void

+getFilePath(): String

+write(Transaction): void

+write(List<Transaction>): void

+doesFileExist(String): boolean

TransactionFileReader

-filePath: String

+TransactionFileReader(String)

+setFilePath(String): void

+getFilePath(): String

+readAll(): List<Transaction>

+doesFileExist(String): boolean

UserAccountsFileReader

-filePath: String

+UserAccountsFileReader(String)

+doesUserExist(User, List<User>): boolean

+doesUserExist(User): boolean

<<Enumeration>>
TransactionType

Create

Delete

Post

Logout

Search

Login

Rent

RentalUnitFileReader

-filePath: String

+RentalUnitFileReader(String)

+doesRentalUnitExist(RentalUnit, List<RentalUnit>) boolean

+doesRentalUnitExist(RentalUnit): boolean

+search(Search): List<RentalUnit>

User

-username: String

-userType: UserType

+User(String, UserType)

+setUsername(String): void

+getUsername(): String

+setUserType(UserType): void

+getUserType(): UserType

Transaction

-user: User

-transactionType: TransactionType

+setUser(User):void

+getUser():User

+parseTransaction():String

+getTransactionType(): TransactionType

Delete

+Delete(User)

Create

-username : String

-userType : String

+ Create : (User)

+ParseRequest : String

+ReadUsername : void

+Exists (username : String) : boolean

Logout

+Logout()

<<Enumeration>>
UserType

Admin

FullStandard

PostStandard

RentStandard

Rent

-rentalUnit: RentalUnit

-userType : boolean

-unitAvailability : boolean

+Rent(RentalUnit)

-memberName

+setRentalUnit(RentalUnit): void

+getRentalUnit(): RentalUnit

Search

-city: String

-Price: double

-numBed: int

+Search(String, double, int)

+setCity(String): void

+getCity(): String

+sprice(double): void

+getprice(): double

+setnumBed(int): void

+getnumBed(): int

Post

-rentalUnit: RentalUnit

+Post(RentalUnit)

+setRentalUnit(RentalUnit): void

+getRentalUnit(): RentalUnit