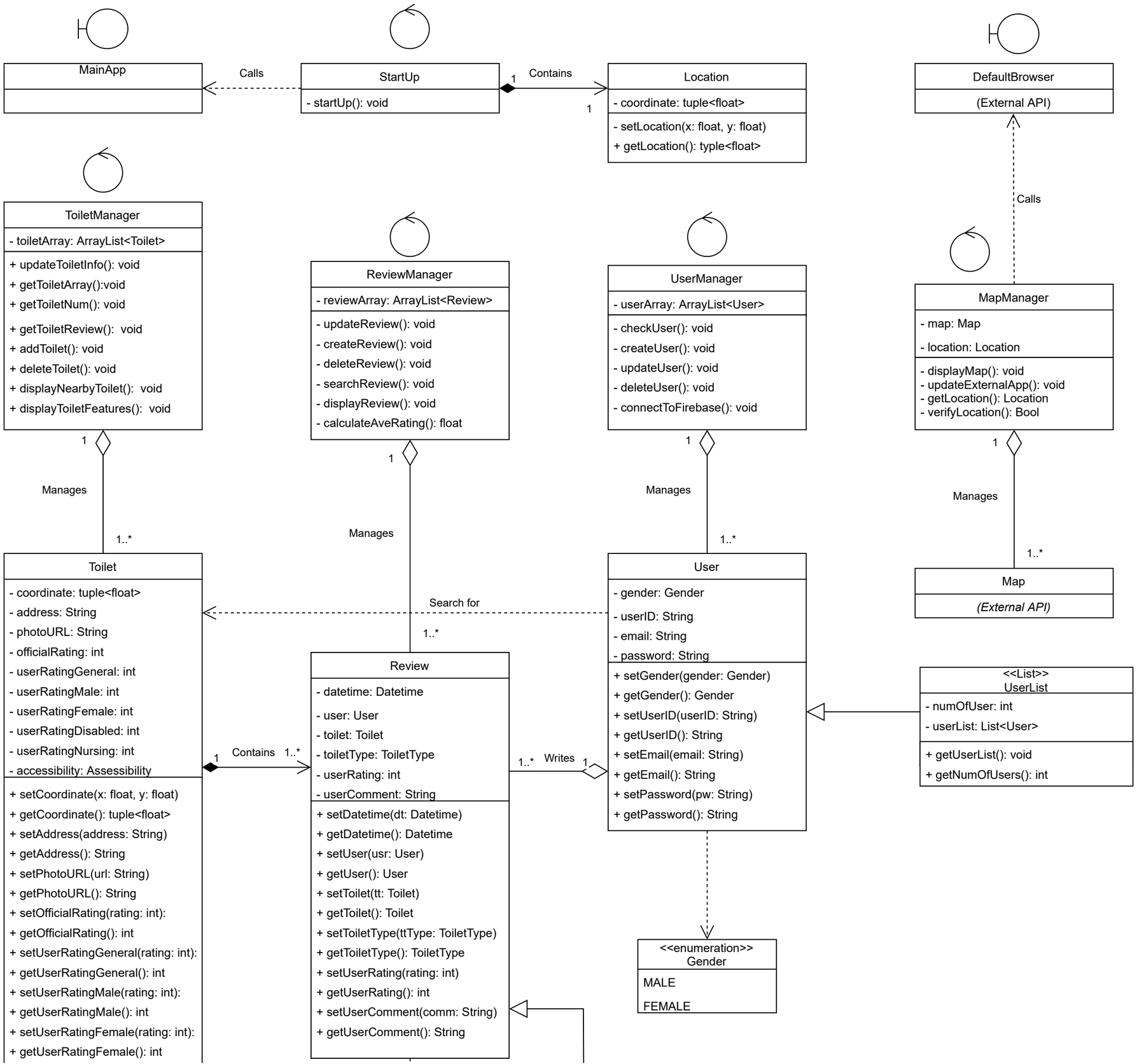
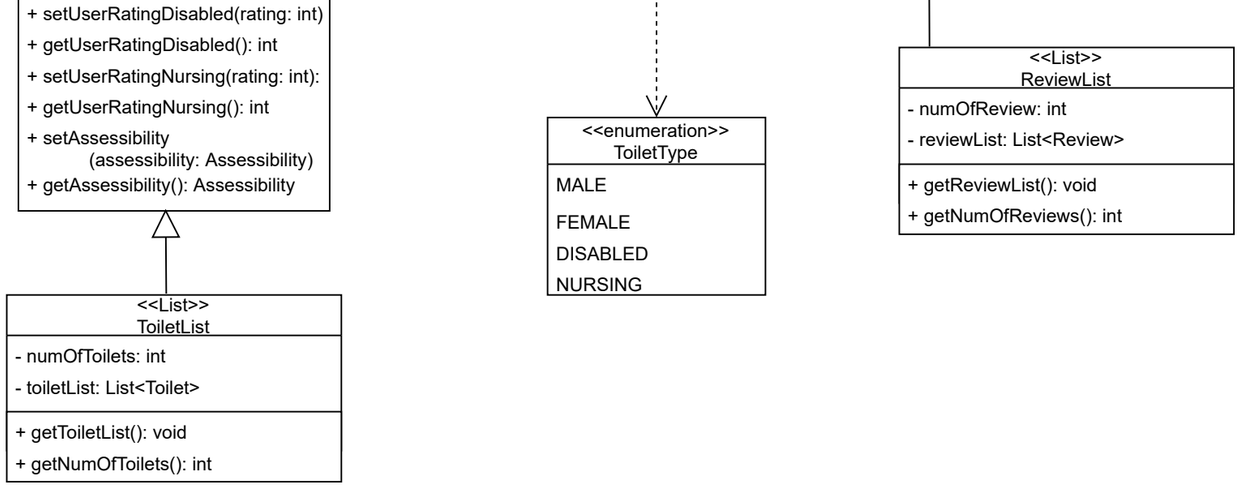
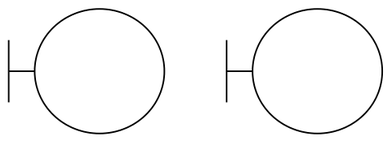

MainApp
Calls
StartUp
- startUp(): void
1
Contains
1
Location
- coordinate: tuple<float>
- setLocation(x: float, y: float)
+ getLocation(): typle<float>
DefaultBrowser
(External API)
Calls
ToiletManager
- toiletArray: ArrayList<Toilet>
+ updateToiletInfo(): void
+ getToiletArray():void
+ getToiletNum(): void
+ getToiletReview(): void
+ addToilet(): void
+ deleteToilet(): void
+ displayNearbyToilet(): void
+ displayToiletFeatures(): void
ReviewManager
- reviewArray: ArrayList<Review>
- updateReview(): void
- createReview(): void
- deleteReview(): void
- searchReview(): void
- displayReview(): void
- calculateAveRating(): float
UserManager
- userArray: ArrayList<User>
- checkUser(): void
- createUser(): void
- updateUser(): void
- deleteUser(): void
- connectToFirebase(): void
MapManager
- map: Map
- location: Location
- displayMap(): void
- updateExternalApp(): void
- getLocation(): Location
- verifyLocation(): Bool
1
Manages
1..*
1
Manages
1..*
1
Manages
1..*
1
Manages
1..*
Toilet
- coordinate: tuple<float>
- address: String
- photoURL: String
- officialRating: int
- userRatingGeneral: int
- userRatingMale: int
- userRatingFemale: int
- userRatingDisabled: int
- userRatingNursing: int
- accessibility: Assessibility
+ setCoordinate(x: float, y: float)
+ getCoordinate(): tuple<float>
+ setAddress(address: String)
+ getAddress(): String
+ setPhotoURL(url: String)
+ getPhotoURL(): String
+ setOfficialRating(rating: int):
+ getOfficialRating(): int
+ setUserRatingGeneral(rating: int):
+ getUserRatingGeneral(): int
+ setUserRatingMale(rating: int):
+ getUserRatingMale(): int
+ setUserRatingFemale(rating: int):
+ getUserRatingFemale(): int
Search for
1..*
Review
- datetime: Datetime
- user: User
- toilet: Toilet
- toiletType: ToiletType
- userRating: int
- userComment: String
+ setDatetime(dt: Datetime)
+ getDatetime(): Datetime
+ setUser(usr: User)
+ getUser(): User
+ setToilet(tt: Toilet)
+ getToilet(): Toilet
+ setToiletType(ttType: ToiletType)
+ getToiletType(): ToiletType
+ setUserRating(rating: int)
+ getUserRating(): int
+ setUserComment(comm: String)
+ getUserComment(): String
1
Contains
1..*
1..*
Writes
1
User
- gender: Gender
- userID: String
- email: String
- password: String
+ setGender(gender: Gender)
+ getGender(): Gender
+ setUserID(userID: String)
+ getUserID(): String
+ setEmail(email: String)
+ getEmail(): String
+ setPassword(pw: String)
+ getPassword(): String
Map
(External API)
1..*
<<List>>
UserList
- numOfUser: int
- userList: List<User>
+ getUserList(): void
+ getNumOfUsers(): int
<<enumeration>>
Gender
MALE
FEMALE



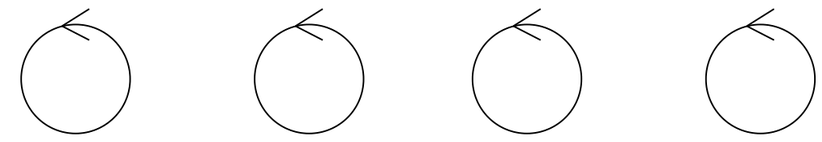
Identification of major boundary classes and control classes

Boundary classes:



MainApp DefaultBrowser

Control classes:



MapManager ToiletManager ReviewManager UserManager