WebInterface
<<Interface>>

+ authorityLogin(username: String, password: String): void
+ findStreetsHighestViolations(filters: FilterList): List<Street>
+ findDangerousVehicles(filters: FilterList): List<Vehicles>
+ findUrgentInterventions(filters: FilterList): List<PossibleIntervention>
+ findUnsafeStreets(city: City): Map
+ findUnsafeStreets(start: Position, end: Position): Map
+ findUnsafeStreets(street: Street): Map
+ newAuthority(authority: Authority): void
+ insertRegistrationCode(code: int): void
+ findUnreadReports(): List<Violation>
+ findReports(filters: FilterList): List<Violation>

MiningInterface
<<Interface>>

+ findStreetsHighestViolations(filters: FilterList): List<Street>
+ findDangerousVehicles(filters: FilterList): List<Vehicles>
+ findUrgentInterventions(filters: FilterList): List<PossibleIntervention>
+ findUnsafeStreets(city: City): Map
+ findUnsafeStreets(start: Position, end: Position): Map
+ findUnsafeStreets(street: Street): Map
+ findUnreadReports(): List<Violation>
+ findReports(filters: FilterList): List<Violation>

StreetsRetrievalInterface
<<Interface>>

+ retrieveStreetName(position: Position): String
+ getPath(start: Position, end: Position): Path
+ generateMap(streets: List<Street>, path: Path): Map

NotificationInterface
<<Interface>>

+ reportViolation(violation: Violation): void

MobileAppInterface
<<Interface>>

+ userLogin(username: String, password: String): void
+ reportViolation(violation: Violation): void
+ findStreetsHighestViolations(filters: FilterList): List<Street>
+ findDangerousVehicles(filters: FilterList): List<Vehicles>
+ findUrgentInterventions(filters: FilterList): List<PossibleIntervention>
+ findUnsafeStreets(city: City): Map
+ findUnsafeStreets(start: Position, end: Position): Map
+ findUnsafeStreets(street: Street): Map
+ newUser(user: User): void

AccessInterface
<<Interface>>

+ userLogin(username: String, password: String): void
+ authorityLogin(username: String, password: String): void
+ newUser(user: User): void
+ newAuthority(authority: Authority): void
+ insertRegistrationCode(code: int): void

DataInterface
<<Interface>>

+ getUserInfo(username: String): User
+ getAuthorityInfo(username: String): Authority
+ storeViolation(violation: Violation): void
+ makeStreetsHighestViolationsQuery(filters: FiltersList): List<Street>
+ makeDangerousVehiclesQuery(filters: FilterList): List<Vehicles>
+ makeUrgentInterventionsQuery(filters: FilterList): List<PossibleIntervention>
+ getStreets(city: City): List<Street>
+ getSafety(street: Street): boolean
+ getUser(user: User): User
+ addUser(user: User): void
+ getCityInfo(cityName: String): City
+ addAuthority(authority: Authority): void
+ makeReportsQuery(filters: FilterList): List<Violation>
+ getViolations(street: Street): List<Violation>
+ getAccidents(street: Street): List<Accident>
+ updateSafety(street: Street, safety: int): void
+ storeAccidents(city: City, accident: Accident): void
+ updateMap(map: Map): void