

StopTimes
+ StopTimes():
+ getStopTimesFromTripId(String, long): StopTime
+ loadFromFile(String): void
+ AddStopTimes(StopTime): void
+ getStopTimesFromStopId(String): List<StopTime>
+ getStopTimesFromStopId(String, long): List<StopTime>

BusWaypoint
+ BusWaypoint(double, double, Trip):
+ BusWaypoint(double, double):
+ BusWaypoint(double, double, String, String):
- position: GeoPosition
- routeType: String
- trip: Trip
- label: String
position: GeoPosition
trip: Trip
label: String
routeType: String

Main
+ Main():
- searchAndShowRouteOffline(String): boolean
+ main(String[]): void
- createZoomPanel(): JPanel
- createLeftPanel(): JPanel
- createButton(String): JButton
- updateBusPositions(): void
- displayBusWaypoints(Set<BusWaypoint>): void
- showStopOffline(String): void
- updateStatus(): void
- refreshTable(Set<BusWaypoint>): void
- searchAndShowRoute(String): boolean
- panMap(double, double): void
- createNavigationPanel(): JPanel
- showStop(String): void
- searchAndShowStop(String): void

CustomWaypointRenderer
+ CustomWaypointRenderer():
+ paintWaypoint(Graphics2D, JXMapView, Waypoint): void

Stops
+ Stops():
+ Print(): void
+ searchStopList(String): List<Stop>
+ loadFromFile(String): void
+ searchStop(String): Stop
+ AddStop(Stop): void

Favourites
+ Favourites():
- favouriteRoutes: List<String>
- favouriteStops: List<String>
+ addRoute(String): void
+ addStop(String): void
+ loadFavouriteRoutesFromFile(String): void
+ removeRoute(String): void
+ saveFavouriteStopsToFile(String): void
+ loadFavouriteStopsFromFile(String): void
+ saveFavouriteRoutesToFile(String): void
+ removeStop(String): void
favouriteStops: List<String>

StopTime
+ StopTime(String, String, String, String, String):
- shapeDistTraveled: String
- arrivalTime: String
- arrivalDateTime: LocalDateTime
- stopId: String
- stopSequence: String
- tripId: String
arrivalTime: String
tripId: String
shapeDistTraveled: String
stopId: String
stopSequence: String
arrivalDateTime: LocalDateTime

Stop
+ Stop(String, String, String, String):
- stopLon: String
- stopName: String
- stopId: String
- stopLat: String
+ print(): void
stopLat: String
doubleStopLon: double
stopLon: String
stopId: String
doubleStopLat: double
stopName: String

Trips
+ Trips():
+ getRouteIdFromTripId(String): String
+ AddTrip(Trip): void
+ searchTrip(String): Trip
+ Print(String): void
+ loadFromFile(String): void
+ Print(): void
+ getTripListFromRouteId(String): List<Trip>
size: int

Trip
+ Trip(String, String, String, String):
- currentStopSequence: int
- tripId: String
- routeId: String
- tripHeadSign: String
- currentStopId: String
- targetStopSequence: int
tripId: String
routeId: String
tripHeadSign: String
currentStopSequence: int
targetStopSequence: int
currentStopId: String

StaticGTFSDownloader
+ StaticGTFSDownloader(String, String, Path):
- unzipFile(Path, Path): void
- downloadAsString(String): String
+ downloadAndUnzipIfNeeded(): boolean
- getFileNameFromURL(String): String
- calculateMD5(Path): String
upToDate: boolean

GTFSFetcher
+ GTFSFetcher():
+ fetchBusPositions(String): Set<BusWaypoint>
+ fetchBusStopPositions(): Set<BusWaypoint>

Route
+ Route(String, String):
- routeId: String
- routeType: String
routeTypeDesc: String
routeId: String

Routes
+ Routes():
+ searchRoute(String): Route
+ addRoute(Route): void
+ print(): void
+ loadFromFile(String): void

GlobalParameters
+ GlobalParameters():
- mapZoom: int
mdsURL: String
mapZoom: int
fileURL: String
folderPath: Path

OnlineStatusChecker
+ OnlineStatusChecker():
+ isOnline(String): boolean
online: boolean