Input files

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| **convertedCoordinates.csv**  (source: converted online using RHS inputs) | **zoneIdCoordinatesJoin**  (source: <http://www.onemap.sg/TrafficQuery/Service1.svc/SERVICEINFO?erp=ERPI> ) |
| 1.3005100254837318,103.85569235397826  1.3067498926256693,103.87330393548633  1.2805237468558295,103.84011152796258  1.300672909524371,103.83493596067247  1.273469727967721,103.84194452235874 | {"SERVICESINFO":[{"ERPINFO":[  {"TIMESTAMP":""},  {"ZONEID":"BMC","X\_ADDR":"30490","Y\_ADDR":"31430"},  {"ZONEID":"NIC","X\_ADDR":"32450","Y\_ADDR":"32120"},  {"ZONEID":"CBD","X\_ADDR":"28756","Y\_ADDR":"29220"},  {"ZONEID":"OC1","X\_ADDR":"28180","Y\_ADDR":"31448"},  {"ZONEID":"CBD","X\_ADDR":"28960","Y\_ADDR":"28440"}, |

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| **PriceTimingZoneId.json**  (source: dynamic data from datamall) |
| {"odata.metadata":"http://datamall2.mytransport.sg/ltaodataservice/$metadata#ERPRates","value":  [{"VehicleType":"Very Heavy Goods Vehicles/Big Buses","DayType":"Weekdays","StartTime":"07:00","EndTime":"08:00","ZoneID":"AY1","ChargeAmount":0,"EffectiveDate":"2016-08-01"},  {"VehicleType":"Very Heavy Goods Vehicles/Big Buses","DayType":"Weekdays","StartTime":"08:05","EndTime":"08:55","ZoneID":"AY1","ChargeAmount":2,"EffectiveDate":"2016-08-01"}, |

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| **GantryPosition.json**  (source: converted from shape file from static data from datamall <https://www.mytransport.sg/content/mytransport/home/dataMall.html> ) |
| {  "type": "FeatureCollection",  "crs": { "type": "name", "properties": { "name": "urn:ogc:def:crs:OGC:1.3:CRS84" } },  "features": [  { "type": "Feature", "properties": { "TYP\_CD": "P", "TYP\_CD\_DES": "ERP" }, "geometry": { "type": "LineString", "coordinates": [ [ 103.796852963067209, 1.286834229215371 ], [ 103.796750523519904, 1.286652536337776 ] ] } },  { "type": "Feature", "properties": { "TYP\_CD": "P", "TYP\_CD\_DES": "ERP" }, "geometry": { "type": "LineString", "coordinates": [ [ 103.844357241008183, 1.273354098909588 ], [ 103.844473561435834, 1.273260054228696 ] ] } },  { "type": "Feature", "properties": { "TYP\_CD": "P", "TYP\_CD\_DES": "ERP" }, "geometry": { "type": "LineString", "coordinates": [ [ 103.842375080736687, 1.290013387940964 ], [ 103.842418803711766, 1.290083465780215 ] ] } }, |

Code flow

Challenges

Design: mapping xmls/jsons to objects. use interface {} or create new object to represent it?

Gantries have no zone Ids

zoneId to gantry info does not match

possible todos

erp caching mechanism: automate caching based on prev used date