PhillyFreeParking Find Parking Process Flow

# Notes

DisplayedParking[] is a Map from ParkingID to a pointer to the Polyline object on the map. This is useful for keeping track of polylines already on the map as well as checking if a given parking object is already displayed on the map.

# Process

OnViewportChange(newLongLatBounds):

1. If newLongLatBounds are NOT in EagerLoading range:
   1. Call API – GetParking(ViewportBounds)
   2. Foreach “Parking” in returned list:
      1. Check DisplayedParking[] for ID
      2. If ID NOT in DisplayedParking[]
         1. Display Parking Polyline
         2. Add ID to DisplayedParking[]
2. Call API – EagerLoad(ViewportBounds, Multiple)
   1. Foreach “Parking” in returned list:
      1. Check DisplayedParking[] for ID
      2. If ID NOT in DisplayedParking[]
         1. Display Parking Polyline
         2. Add ID to DisplayedParking[]
   2. Foreach “Parking” in DisplayedParking[]:
      1. If StartPoint AND EndPoint are not in EagerLoad range:
         1. Remove polyline from map
         2. Remove Parking from DisplayedParking[]