# Traffic Cameras

## MondoDB localhost test: team briefing

Localhost implementation of MongoDB is straightforward following the steps outlined in the pre-work. A brief discussion of options and some recommendations follow.

The source data has little metadata, so this information will need to be determined from processing.  
  
We need to decide on what we wish to store in the database, and we can then structure the schema. ([See recommendations](#_Recommenda))

### Data from CSV

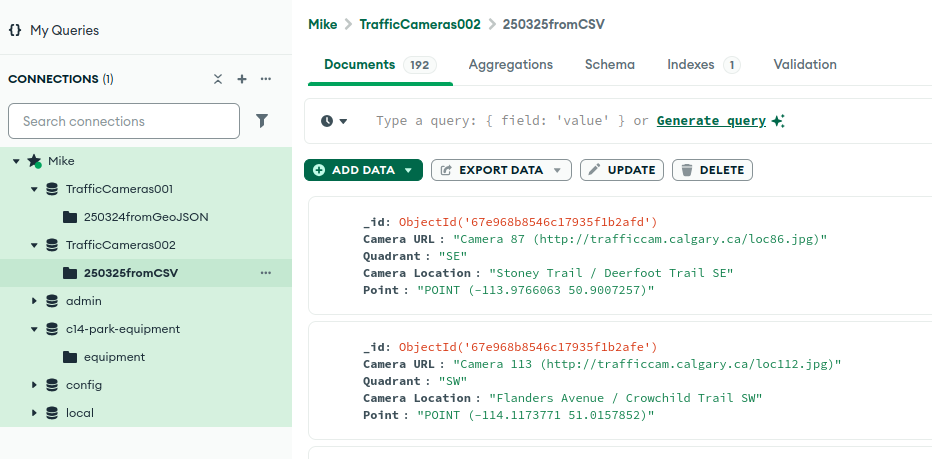


Figure 1: Camera data imported from csv

Figure 1, shows camera data imported from a csv download of Traffic Cameras API. Data in this format does not recognize the point record as being geospatial information.

### Data from GeoJSON

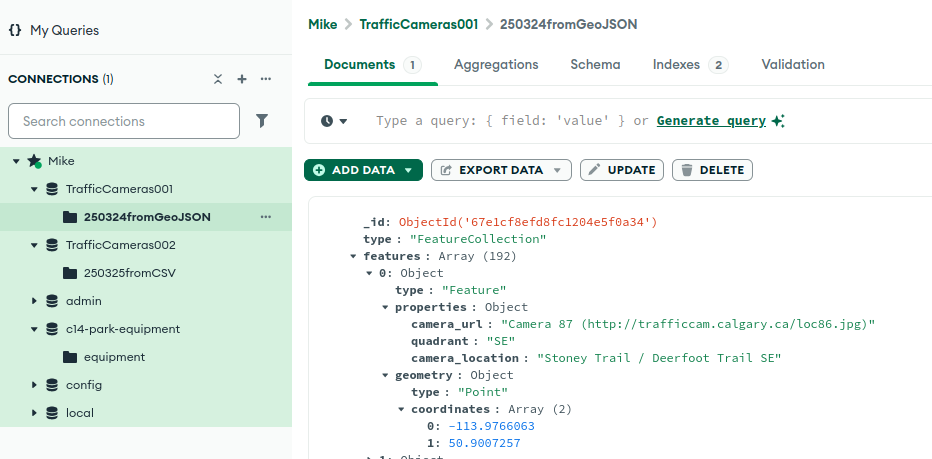


Figure 2: Camera data imported from GeoJSON

Figure 2, show data imported from GeoJSON file. These format recognizes the point as being geospatial information. This enables location based indexing and queries.

### Indexes

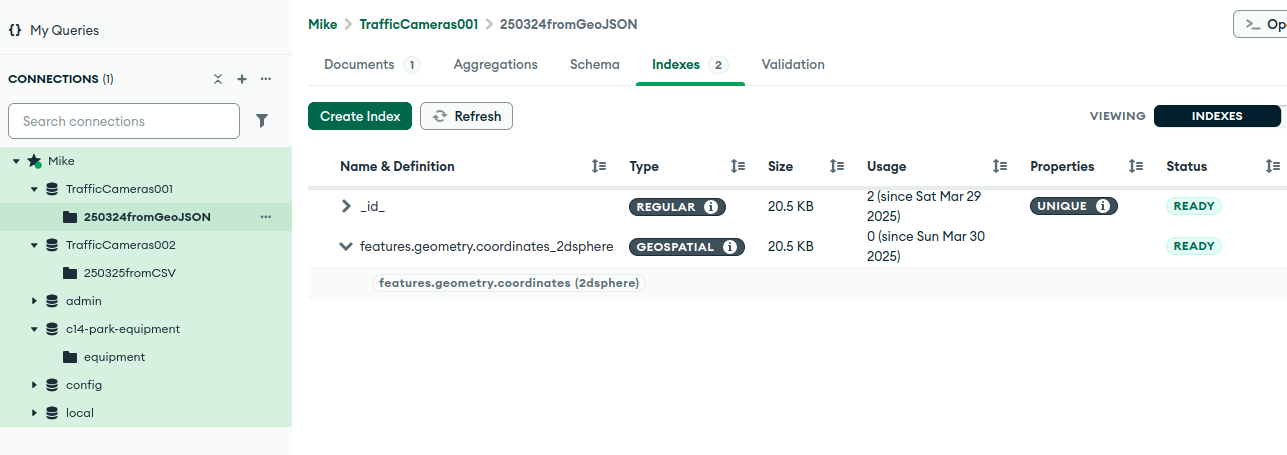


Figure 3: Index on geospatial geometry.

Figure 3, shows a geospatial index on the features within the GeoJSON collection. This index has a 2dsphere type due to the coordinates being lats and longs. Importing csv data does not allow this, without additional processing.

## Endpoint queries

### Camera Specific

A direct query to the api via url returns the record associated with the specific camera

Query:

[https://data.calgary.ca/resource/k7p9-kppz.GeoJSON?camera\_url=%27http://trafficcam.calgary.ca/loc86.jpg%27](https://data.calgary.ca/resource/k7p9-kppz.geojson?camera_url=%27http://trafficcam.calgary.ca/loc86.jpg%27)

Response:

{ "type": "FeatureCollection", "features": [{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.9766063,50.9007257]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc86.jpg","description":"Camera 87"},"quadrant":"SE","camera\_location":"Stoney Trail / Deerfoot Trail SE"}}], "crs" : { "type": "name", "properties": { "name": "urn:ogc:def:crs:OGC:1.3:CRS84" } } }

### All Cameras

A query to the GeoJSON endpoint without a specific camera, returns all of the cameras in a GeoJSON format.

Query:

<https://data.calgary.ca/resource/k7p9-kppz.geojson>

Response:

[See appendix](#_GeoJSON_fr)

# Recommendations

1. Use GeoJSON format.
2. Query the endpoint each time the any function interacting with the camera’s is run. And use the response GeoJSON for processing, or
3. Query the ‘all cameras’ endpoints and update the MongDB collection on regular interval to ensure it remains current.

The resulting collection will not necessarily contain the image storage information, extra metadata or results of any processing. Therefore:

1. Create at least one collection dedicated to these extra data and metadata. *\*\* Discuss organization strategies with advisors.*
2. Additional user value could be derived from knowing if and when cameras are available or not, so tracking this in a collection makes sense.

# Appendices

### GeoJSON from endpoint query

{ "type": "FeatureCollection", "features": [{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.9766063,50.9007257]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc86.jpg","description":"Camera 87"},"quadrant":"SE","camera\_location":"Stoney Trail / Deerfoot Trail SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1173771,51.0157852]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc112.jpg","description":"Camera 113"},"quadrant":"SW","camera\_location":"Flanders Avenue / Crowchild Trail SW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0018281,51.0927921]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc92.jpg","description":"Camera 93"},"quadrant":"NE","camera\_location":"McKnight Boulevard / Barlow Trail 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107"},"quadrant":"NE","camera\_location":"32 Avenue / 36 Street NE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1182195,51.0741894]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc16.jpg","description":"Camera 17"},"quadrant":"NW","camera\_location":"24 Avenue / Crowchild Trail NW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0157036,50.9790353]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc110.jpg","description":"Camera 111"},"quadrant":"SE","camera\_location":"Glenmore Trail / 18 Street SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0643126,51.0159099]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc31.jpg","description":"Camera 32"},"quadrant":"SW/SE","camera\_location":"42 Avenue / Macleod Trail 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69"},"quadrant":"NE","camera\_location":"16 Avenue / 52 Street NE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0379767,50.8661576]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc90.jpg","description":"Camera 91"},"quadrant":"SW/SE","camera\_location":"210 Avenue / Macleod Trail SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0581972,51.046454]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc158.jpg","description":"Camera 159"},"quadrant":"SE","camera\_location":"7 Ave / Macleod Tr SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.9204069,51.0676856]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc83.jpg","description":"Camera 84"},"quadrant":"NE","camera\_location":"16 Avenue / Stoney Trail 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62"},"quadrant":"SW","camera\_location":"Bow Trail / 33 Street SW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0556637,51.0443901]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc91.jpg","description":"Camera 92"},"quadrant":"SE","camera\_location":"9 Avenue / 3 Street SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0554787,51.048176]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc95.jpg","description":"Camera 96"},"quadrant":"SE","camera\_location":"5 Avenue / 3 Street SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1816828,51.0522689]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc145.jpg","description":"Camera 146"},"quadrant":"SW","camera\_location":"Bow Trail & Old Banff Coach Rd SW / Strathcona Blvd 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103"},"quadrant":"NE","camera\_location":"Memorial Drive / 12 Street NE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0689009,51.1734005]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc136.jpg","description":"Camera 137"},"quadrant":"NW/NE","camera\_location":"Stoney Trail / Harvest Hills Blvd N"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1873508,51.0380985]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc140.jpg","description":"Camera 141"},"quadrant":"SW","camera\_location":"17 Avenue / 69 Street SW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.9815651,51.0521087]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc41.jpg","description":"Camera 42"},"quadrant":"SE","camera\_location":"Memorial Drive / 36 Street 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134"},"quadrant":"NW","camera\_location":"Stoney Trail / Nose Hill Drive NW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.9998411,51.0232852]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc20.jpg","description":"Camera 21"},"quadrant":"SE","camera\_location":"34 Avenue / Deerfoot Trail SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0715981,51.0377508]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc161.jpg","description":"Camera 162"},"quadrant":"SW","camera\_location":"17 Ave / 4 St SW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.047906,51.0210672]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc40.jpg","description":"Camera 41"},"quadrant":"SE","camera\_location":"Highfield Road / Blackfoot Trail 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68"},"quadrant":"NE","camera\_location":"64 Avenue / Deerfoot Trail NE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0858242,51.0519424]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc35.jpg","description":"Camera 36"},"quadrant":"NW","camera\_location":"Memorial Drive / 10 Street NW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1413625,51.0225389]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc165.jpg","description":"Camera 166"},"quadrant":"SW","camera\_location":"Richmond Rd / 37 St SW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.9985184,50.978689]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc195.jpg","description":"Camera 196"},"quadrant":"SE","camera\_location":"Glenmore Tr / Ogden Rd 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145"},"quadrant":"SE","camera\_location":"Glenmore Trail / 68 Street SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0181691,51.0478522]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc17.jpg","description":"Camera 18"},"quadrant":"SE","camera\_location":"Memorial Drive / Deerfoot Trail SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0501597,51.0297595]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc46.jpg","description":"Camera 47"},"quadrant":"SE","camera\_location":"25 Avenue / Spiller Road SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.164821,51.1530825]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc72.jpg","description":"Camera 73"},"quadrant":"NW","camera\_location":"Stoney Trail / Sarcee Trail 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of)"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1180484,51.0000379]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc15.jpg","description":"Camera 16"},"quadrant":"SW","camera\_location":"Glenmore Trail / Crowchild Trail SW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1149257,51.1565751]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc100.jpg","description":"Camera 101"},"quadrant":"NW","camera\_location":"Stoney Trail / Beddington Trail NW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1398453,51.1088433]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc47.jpg","description":"Camera 48"},"quadrant":"NW","camera\_location":"John Laurie Blvd / Shaganappi Trail NW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.969186,51.1751401]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc132.jpg","description":"Camera 133"},"quadrant":"NE","camera\_location":"Stoney Trail / Metis Trail NE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1413616,51.0453097]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc142.jpg","description":"Camera 143"},"quadrant":"SW","camera\_location":"Bow Trail / 37 Street SW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0659867,50.9043314]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc116.jpg","description":"Camera 117"},"quadrant":"SE","camera\_location":"162 Avenue / Shawville Blvd SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0020863,51.0667728]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc93.jpg","description":"Camera 94"},"quadrant":"NE","camera\_location":"16 Avenue / Barlow Trail NE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.9216323,51.0156205]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc137.jpg","description":"Camera 138"},"quadrant":"SE","camera\_location":"Stoney Trail / Peigan Trail SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1036354,51.0470427]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc53.jpg","description":"Camera 54"},"quadrant":"SW","camera\_location":"Bow Trail / Pumphouse Road SW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0842358,50.9939161]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc6.jpg","description":"Camera 7"},"quadrant":"SW","camera\_location":"Glenmore Trail / Elbow Drive SW (East)"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0352515,51.1423169]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc172.jpg","description":"Camera 173"},"quadrant":"NE","camera\_location":"Airport Tr / Deerfoot Tr NE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.958331,50.9504395]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc29.jpg","description":"Camera 30"},"quadrant":"SE","camera\_location":"114 Avenue / 52 Street SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.9582103,51.0958837]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc12.jpg","description":"Camera 13"},"quadrant":"NE","camera\_location":"McKnight Blvd / 52 Street NE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.0622517,51.1107198]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc187.jpg","description":"Camera 188"},"quadrant":"NE","camera\_location":"64 Ave / Centre St N"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.915867,51.0967588]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc115.jpg","description":"Camera 116"},"quadrant":"NE","camera\_location":"McKnight Blvd / Stoney Trail NE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.071734,51.0014567]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc103.jpg","description":"Camera 104"},"quadrant":"SW/SE","camera\_location":"58 Avenue / Macleod Trail S"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.9072768,50.906454]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc25.jpg","description":"Camera 26"},"quadrant":"SE","camera\_location":"Stoney Trail / 88 Street SE"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-114.1173688,51.0240736]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc123.jpg","description":"Camera 124"},"quadrant":"SW","camera\_location":"33 Avenue / Crowchild Trail SW"}},{"type":"Feature","geometry":{"type":"Point","coordinates":[-113.981644,50.9505254]},"properties":{"camera\_url":{"url":"http://trafficcam.calgary.ca/loc108.jpg","description":"Camera 109"},"quadrant":"SE","camera\_location":"114 Avenue / Barlow Trail SE"}}], "crs" : { "type": "name", "properties": { "name": "urn:ogc:def:crs:OGC:1.3:CRS84" } } }