NYC Building Data Visualizer

Mapping and analyzing trends in NYC real estate

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Problem Statement

- Assist with getting construction and price information about neighborhood

  - How has the price of rent increased in the past

  - What are the projections for sales prices in the next 24 months

  - How much improvement has the area had over time

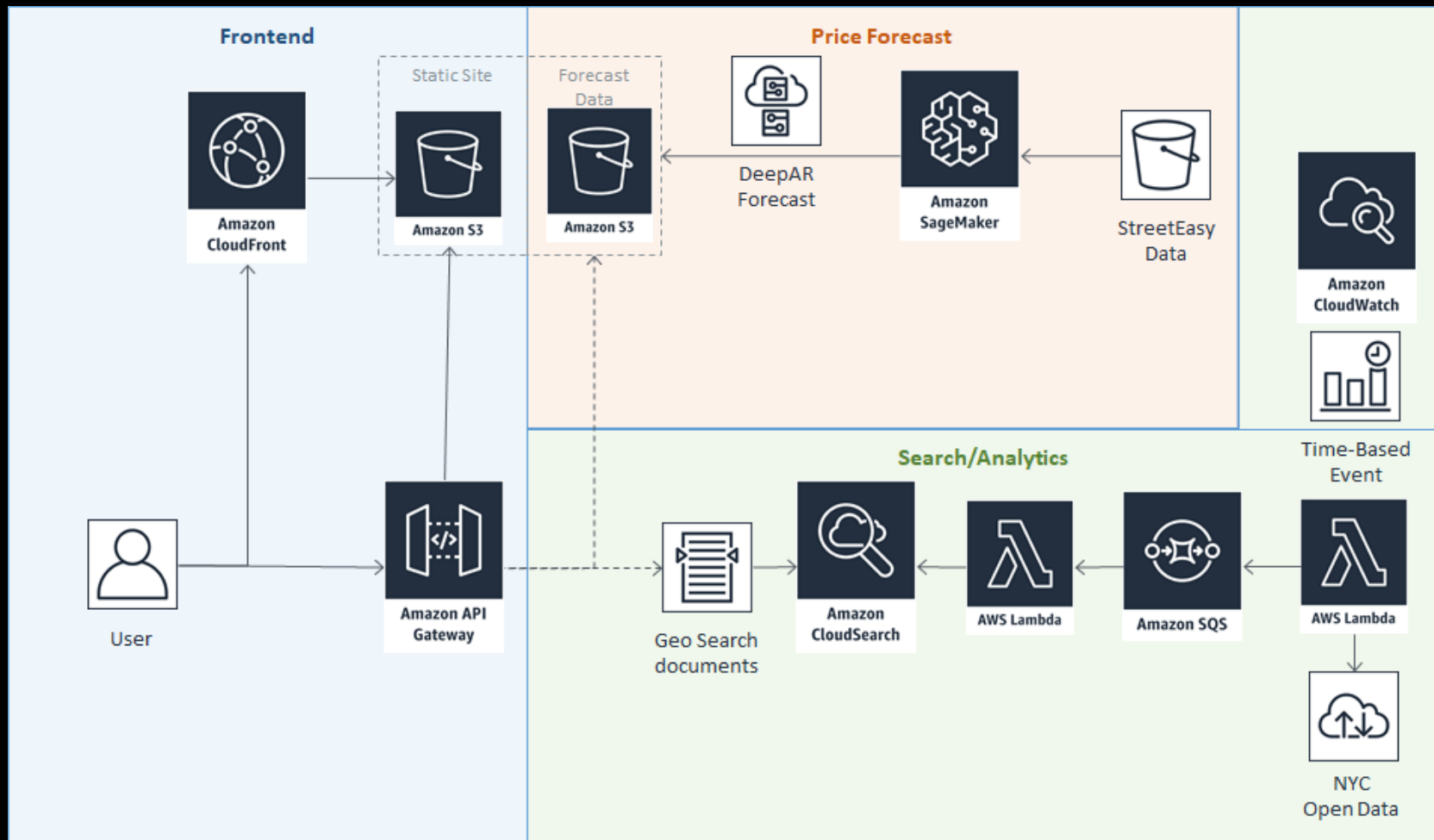 - How much construction noise level will there be in the area

Data -NYC Open Data/Street Easy pricing data

- NYC Open Data (CloudSearch for indexing)
  - Permits are filed when any walls are modified in most buildings
  - Includes everything from construction and demolition to people renovating their home
  - Data is json accessible with API key and has a query interface

- Street Easy Data (SageMaker for analysis)
  - Median prices from last 8 years for rent and sales in csv
  - Data provided by neighborhood and broken up by month

https://opendata.cityofnewyork.us/

End Product

- Web UI that exposes geo-search and faceting on Department of Buildings data
- Faceting on
    - Time Ranges
    - Permit Types
    - Area
- Analytics on construction over time
    - Expose interesting trends
    - Predict future construction developments
- Forecasts for predicting future prices in neighborhood

Design

Demo

CloudFront:
http://d3r6xspzdsmgol.cloudfront.net

Backup Direct S3 Link:
http://buildingviz-site.s3-website-us-east-1.amazonaws.com

https://www.youtube.com/watch?v=sSN1EyDSniQ