Wildfire Database

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Description

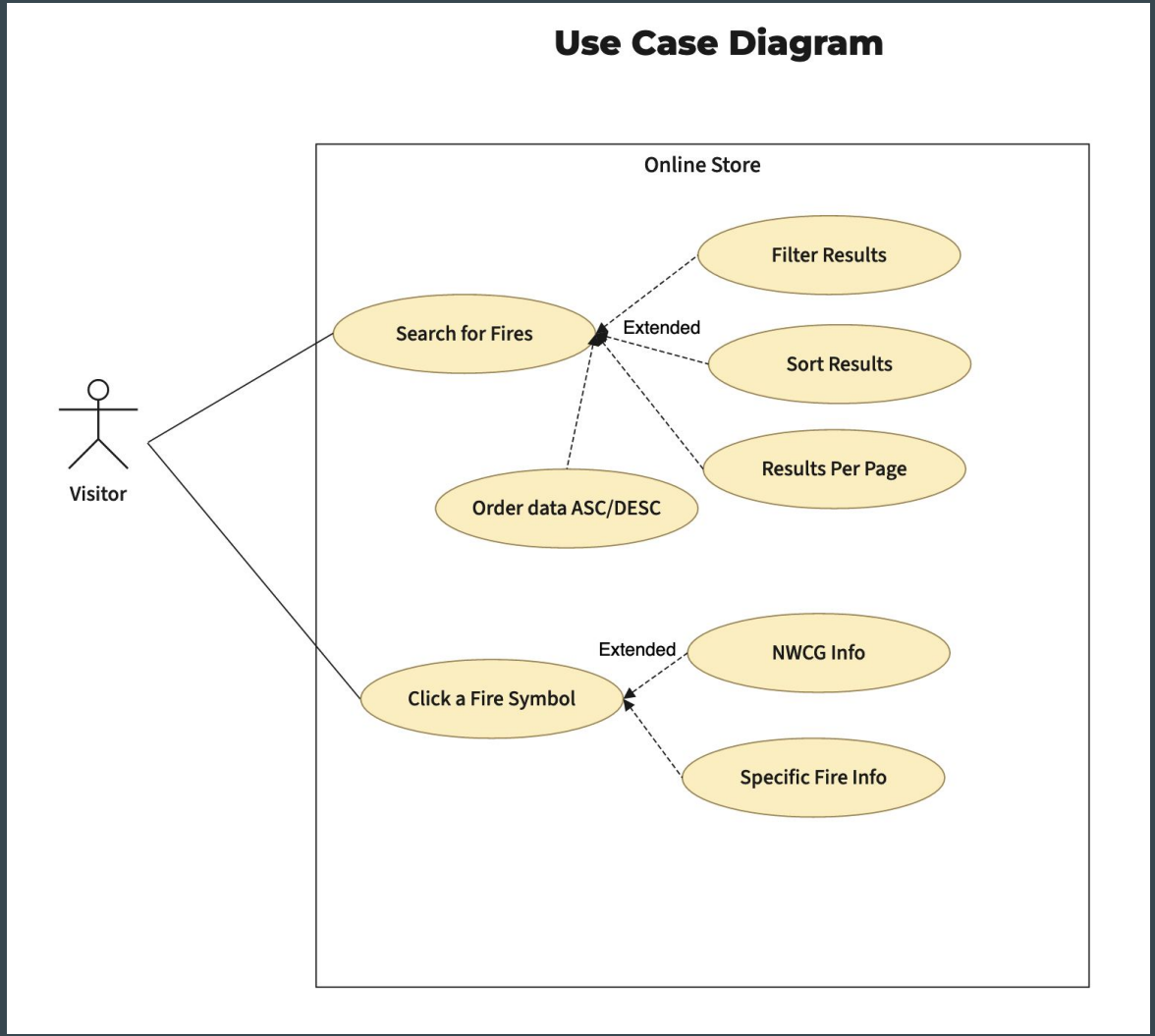
A system that allows users to look up information about wildfires

- Selects query options to bring up wildfire data
- Filter data by year, county, state, etc
- Sort data alphabetically, by recency, size, etc
- Click on specific fires to bring up more detailed information

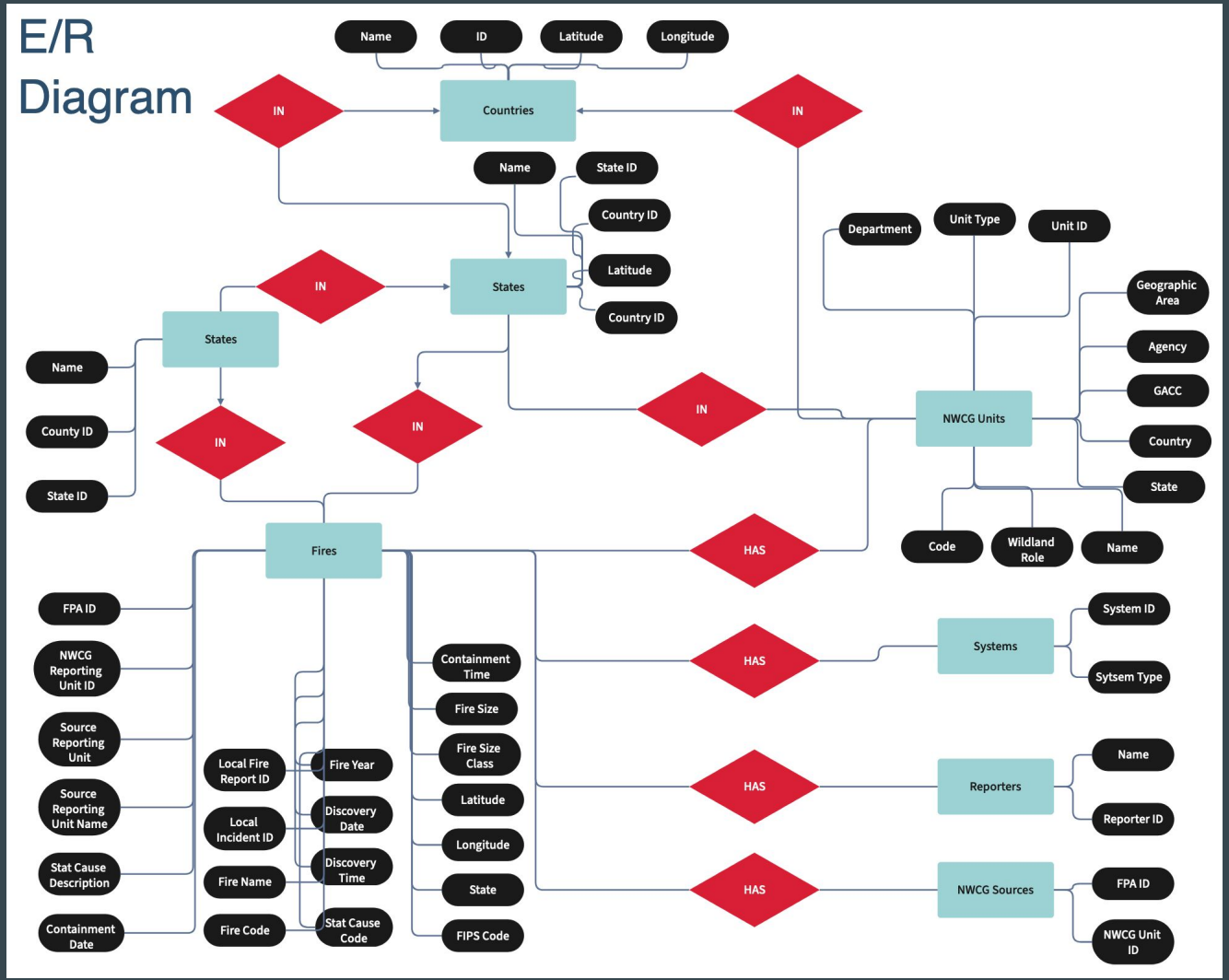
Implementation Details

- Languages: HTML, CSS, JavaScript, Python
- Frameworks: Flask (Python framework)
- Database: SQLite3

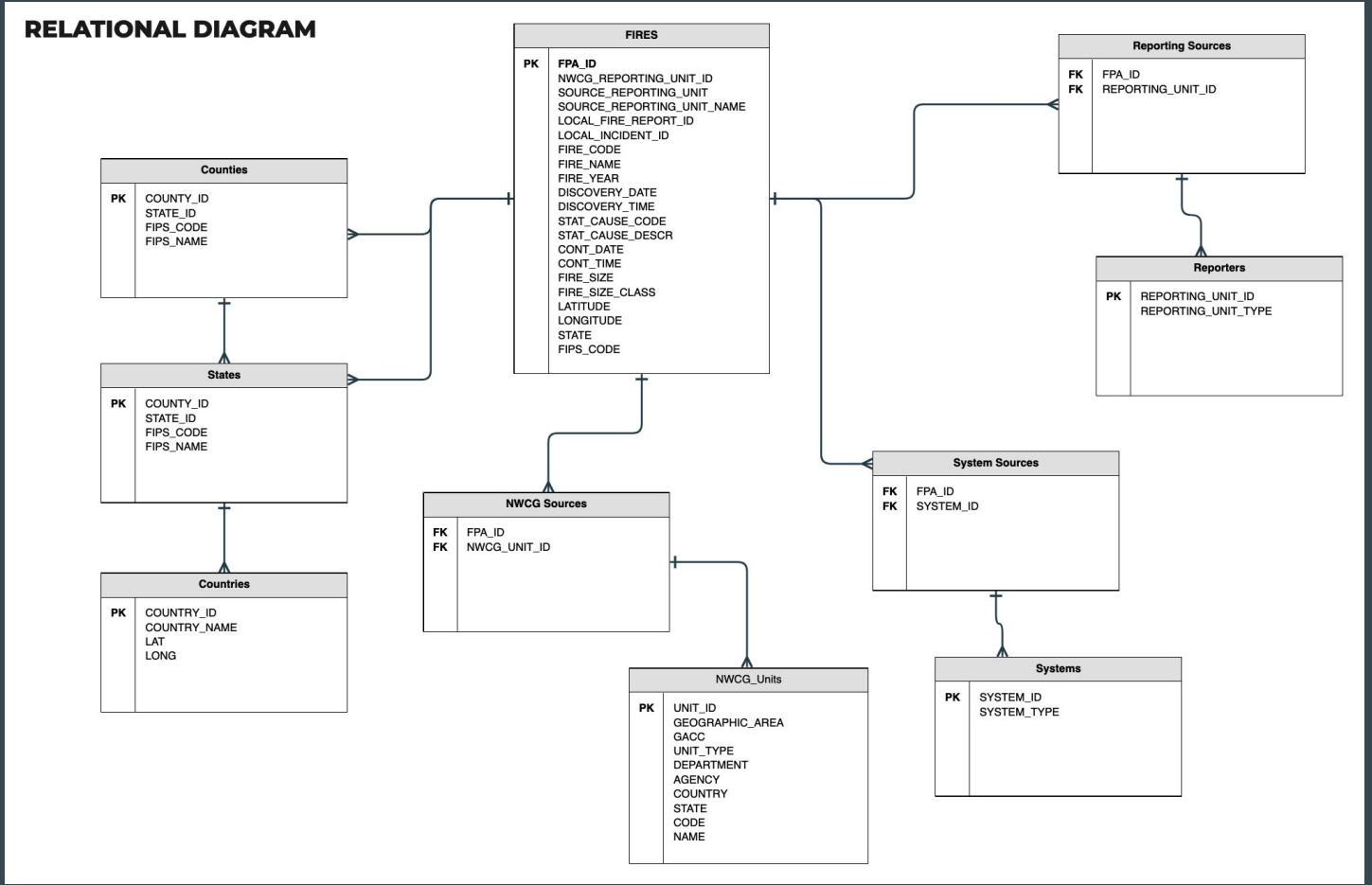
Use-Case Diagram



E/R Diagram


E/R Diagram
Name
ID
Latitude
Longitude
IN
Countries
IN
Name
State ID
Country ID
Latitude
Country ID
States
IN
States
Name
County ID
State ID
IN
IN
IN
Department
Unit Type
Unit ID
Geographic Area
Agency
GACC
Country
State
NWCG Units
Code
Wildland Role
Name
Fires
HAS
FPA ID
NWCG Reporting Unit ID
Source Reporting Unit
Source Reporting Unit Name
Stat Cause Description
Containment Date
Local Fire Report ID
Local Incident ID
Fire Name
Fire Code
Fire Year
Discovery Date
Discovery Time
Stat Cause Code
Containment Time
Fire Size
Fire Size Class
Latitude
Longitude
State
FIPS Code
HAS
Systems
System ID
Sytsem Type
HAS
Reporters
Name
Reporter ID
HAS
NWCG Sources
FPA ID
NWCG Unit ID

Relational Diagram



Thank You!