



CSE-111: Wildfire Database

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System Description

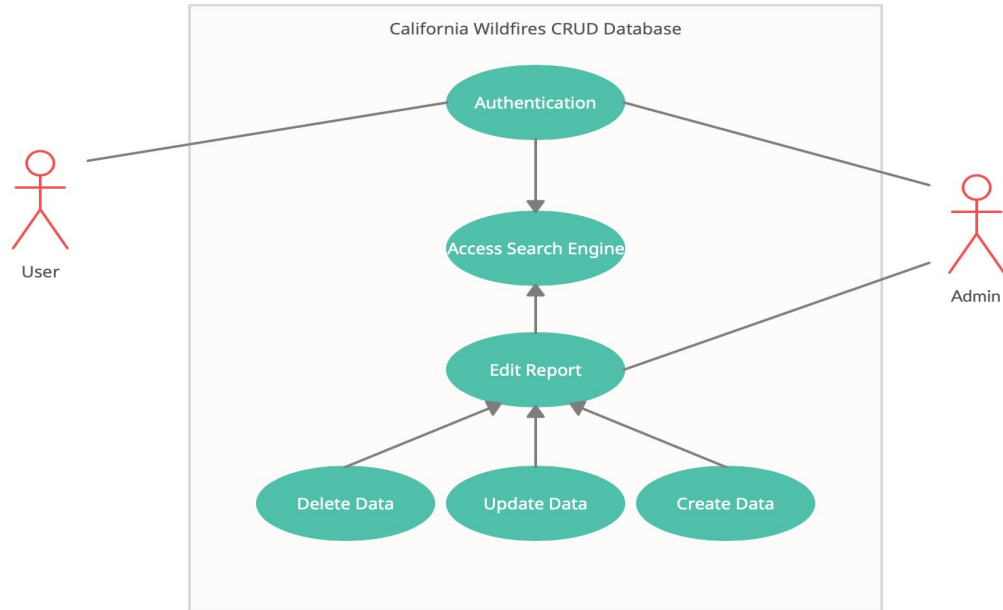
- Multi use self updating database that showcases current wildfires occurring on California.
 - Allows users to see and Admins to update:
 - Dates (Start and last Updated)
 - Responders
 - County/Location
 - Whether its Contained or ongoing?
- Data includes link to the Official Cal Fire ArcGIS UI for further information.



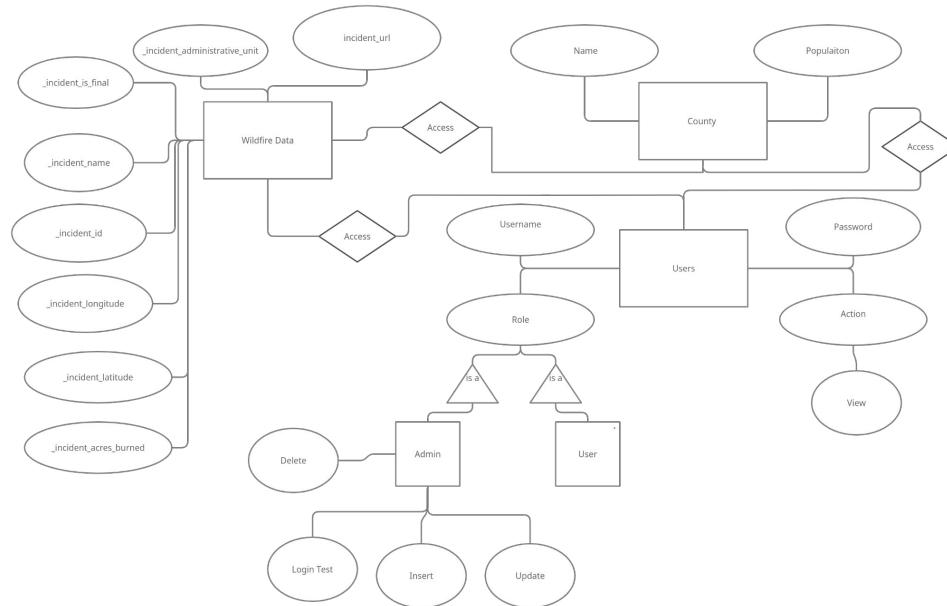
Implementation Details

- Python & sql
- Tables:
 - Admin/Users
 - Wildfire Dataset
 - Standard Counties and Population
- Primary Functions
 - Admin:
 - Create
 - Update
 - Delete
 - Users:
 - View

Use Case Diagram



E/R Diagram & Schema





Final Relational Diagram

User

- username, password, role, user_action, data_set_reference

Wildfire Data

- incident_data_set_reference, incident_name, incident_is_final, incident_date_last_update, incident_date_created, incident_administrative_unit, incident_administrative_unit_url,
- incident_county, incident_location, etc

County

- county_number, county_name, county_population



Demonstration:

Questions?

Github Link:

<https://github.com/SidharthBabu121/CSE-111-Wildfire-CRUD-Databases>