

# GRCResponder

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# Current Timeline

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- **Week 1:** Wrap up basic functions
- **Week 2 - 3: Integration**
  - Combine our branches and connect components
  - Deliverables: Full workflow prototype
- **Week 4 - 5: Testing & Refine performance**
  - Polish based on user testing
  - Deliverables: Numeric performance optimization, additional user features
- **Week 6 - 7: Continue bug fixes + Enhance documentations/report**
  - Deliverables: Working project on multiple queries, documents, and utility companies

# Search Engine Updates

- Finding a way to work around Robots.txt since it disallows scraping
  - Create a user agent to mimic browsing
- Created a work around for scraping metadata

```
{
  "proceeding_id": "A2504004",
  "filed_by": "Pacific Gas and Electric Company",
  "service_list": [
    "https://ia.cpuc.ca.gov/servicelists/A2504004_97628.htm"
  ],
  "industry": "Electric",
  "filing_date": "April 9, 2025",
  "status": "ACTIVE",
  "category": null,
  "description": "[PUBLIC VERSION] Application of PACIFIC GAS AND ELECTRIC COMP/
  "staff": null
},
```

# Search Engine Updates

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## Steps Forward

Initial Implementation of batch processing and threading

- Batch size of 3 proceedings
- Operating over 4 threads

# LLM Updates

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- Current setup uses a local database. Initial tests with database on azure server.
- Collectively, working on creating test questions and target answers either with use of an LLM or manually to evaluate quality.
- After connection with azure database and tests, we want to enhance query preprocessing for quicker response times and lower latency.

# LLM Updates

What info do you have on catalina island?

===== Ai Message =====

Tool Calls:

retrieve (0552c282-b8b6-4b47-879c-b252ebb08c0f)

Call ID: 0552c282-b8b6-4b47-879c-b252ebb08c0f

Args:

query: catalina island

===== Tool Message =====

Name: retrieve

Source: {'chunk\_index': 29, 'document\_id': '543831240', 'proceeding\_id': 'A2312011', 'Content': 3. "Application" refers to Application No. (A.)23-12-011, SCE's Application for Authority to, Among Other Things, Increase its Authorized Revenues for Gas Service for Santa Catalina Island and to Reflect that Increase in Rates filed with the Commission on December 15, 2023, and SCE's direct testimony, Exhibit SCE-01.

4. "CARE" refers to California Alternate Rates for Energy.

5. "Catalina" refers to Santa Catalina Island.

1 The Utility Reform Network filed a protest to SCE's Application but has not actively the proceeding.

A-1

6. "Catalina Gas" refers to SCE's gas utility on Catalina. Catalina Gas is a propane-fueled gas production and distribution system that serves approximately 1,400 residential and commercial customers who reside primarily in the city of Avalon.

7. "Catalina Gas GRC" refers to the CPUC proceeding A.23-12-011, docketed to consider SCE's Application.

8. "CPUC" or "Commission" refers to the California Public Utilities Commission.

- LLM is able to retrieve documents on a local database.

# LLM Updates

```
===== Human Message =====
What documents do you have access to?
===== Ai Message =====
Tool Calls:
  retrieve (60d8d6c8-b2eb-4123-a015-395ab48132ef)
    Call ID: 60d8d6c8-b2eb-4123-a015-395ab48132ef
    Args:
      query: all available documents
Retrieved 2 documents in 2.6690289974212646 seconds.
===== Tool Message =====
Name: retrieve

Source: {'chunk_index': 0, 'document_id': 4, 'document_type': 'APPLICATION', 'filed_by': 'San Diego Gas & Electric Company', 'filing_date': '2025-03-20'}
Content: Document: Application of San Diego Gas & Electric Company (U902M) for Authority to Establish Its Authority to Operate (U902M) for Authority to Establish Its Authority to Operate
Type: APPLICATION
Filed By: San Diego Gas & Electric Company
Filing Date: 2025-03-20

Source: {'chunk_index': 0, 'document_id': 3, 'document_type': 'AMENDMENT', 'filed_by': 'San Diego Gas & Electric Company', 'filing_date': '2025-03-24'}
Content: Document: Amendment to Test Year 2026 Cost of Capital Application of SDG&E (U902M) dated March 20, 2025
Type: AMENDMENT
Filed By: San Diego Gas & Electric Company
Filing Date: 2025-03-24
===== Ai Message =====
I have access to two documents:

1. An "Application" document with the title "Application of San Diego Gas & Electric Company (U902M) for Authority to Establish Its Authority to Operate (U902M) for Authority to Establish Its Authority to Operate"
2. An "Amendment" document with the title "Amendment to Test Year 2026 Cost of Capital Application of SDG&E (U902M) dated March 20, 2025"

Please note that these documents are related to a specific proceeding, with proceeding numbers and IDs. If you're interested in more information, please provide the proceeding numbers and IDs.

=====
LLM + Retrieval call took 39.72 seconds
=====
```

- LLM is also to retrieve documents on azure hosted database.

# Web Updates

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- Implementing endpoints to connect with local database and local llm
- Testing pdfviewer with PDF.js and react-pdf-viewer
  - PDF.js offers more flexibility
  - react-pdf-viewer is quicker for basic pdf viewing (no styling)



# Current Timeline

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- **Coming up**

- Hope to have full setup with locally hosted database and llm on website
  - Limitations: we only leave the database running in short periods due to incurring costs, though the connection is a change in url
- Once everything is connected and functional, implementing a semantic search/keyword search rather than solely leaving it to prompting llm to look through the whole database(ex. use context clues instead)

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# Questions?

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