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LogDb

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OVERVIEW

LogDb is a web application that given some log files of specific form will parse them, add them in specific database tables and give you a web application interface to query/add/edit/delete the logs, and execute more advanced queries as well. It also includes user account implementation in the way of registration , login and permissions. Also the critical user events are logged in the database.

Web app overview and functionalities.

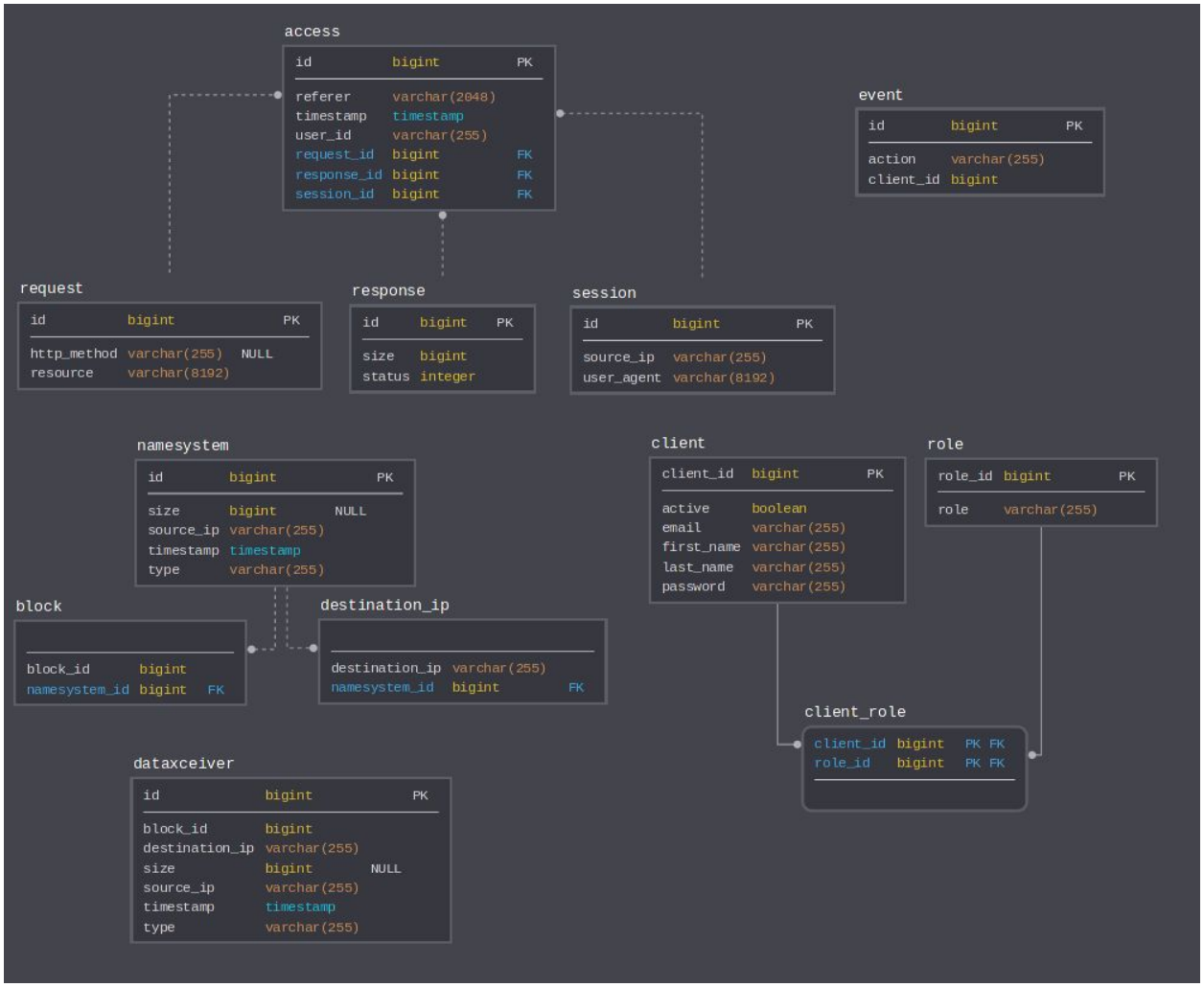
Using the LogDb someone is able:

- Without an account:
    1. Create an account.
    2. Parse specific log files.
    3. Search through logs by ip.
    4. List the logs results in pages using pagination.
- With an account:
    1. Login.
    2. Edit logs.
    3. Insert new logs.
    4. Delete logs.
    5. Eventlog his actions.
    6. Call advanced parameterized stored procedures and see results.

Technologies used for the project:

We implemented the project using, PostgreSQL, Gradle, Java 8 with SpringBoot, Spring Security, Spring JPA, Thymeleaf, Bootstrap, CSS .
Our IDEA of preference was IntelliJ.

Database schema:



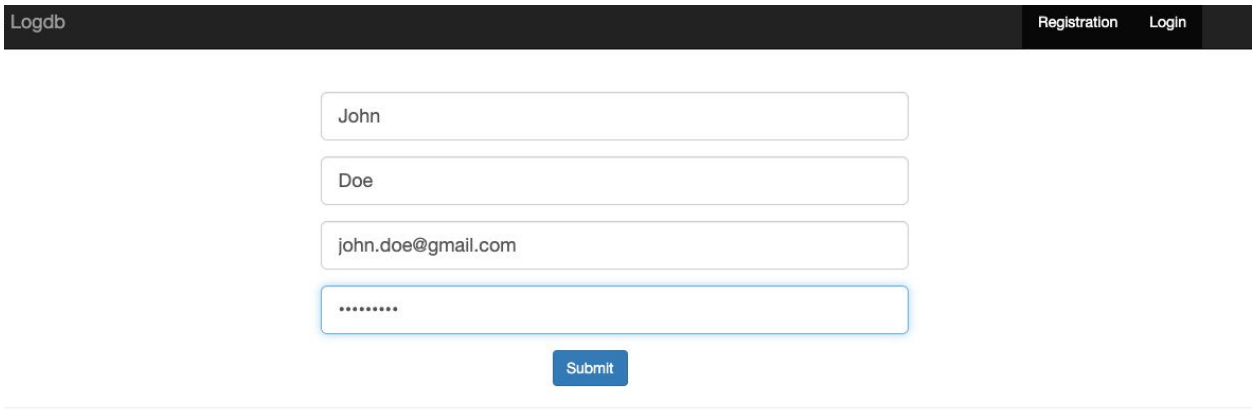
Conventions:

1. Search bar will remember the search term even after a refresh of the page you should clear the field to list all logs.

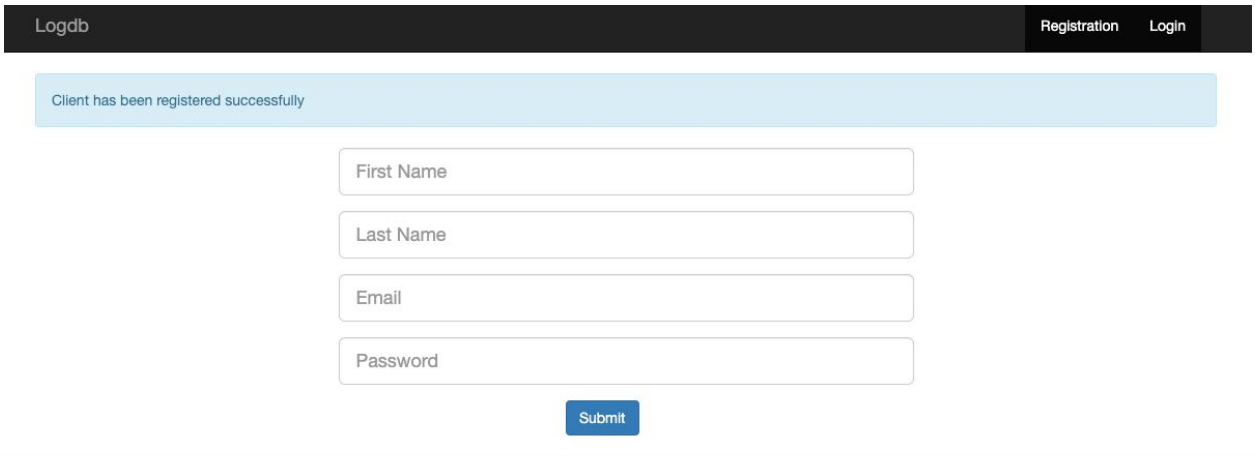
2. In each page of the log list we have one access log, one Namesystem log and one Dataxreceiver log. This has been done to list all the logs together and not in separate pages.

LogDb snapshots:

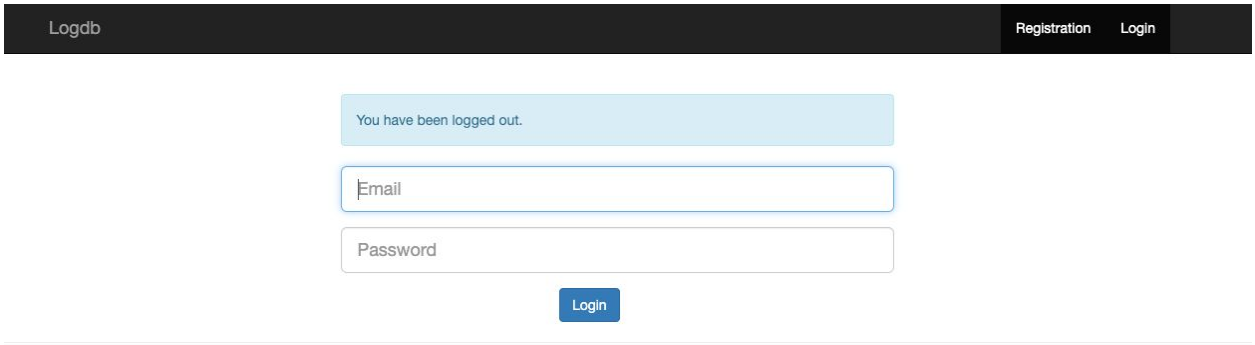
- Registration page:



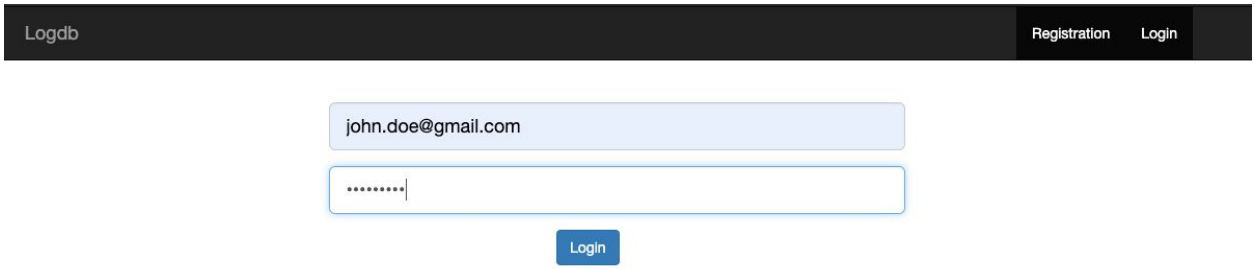
- Successful registration:



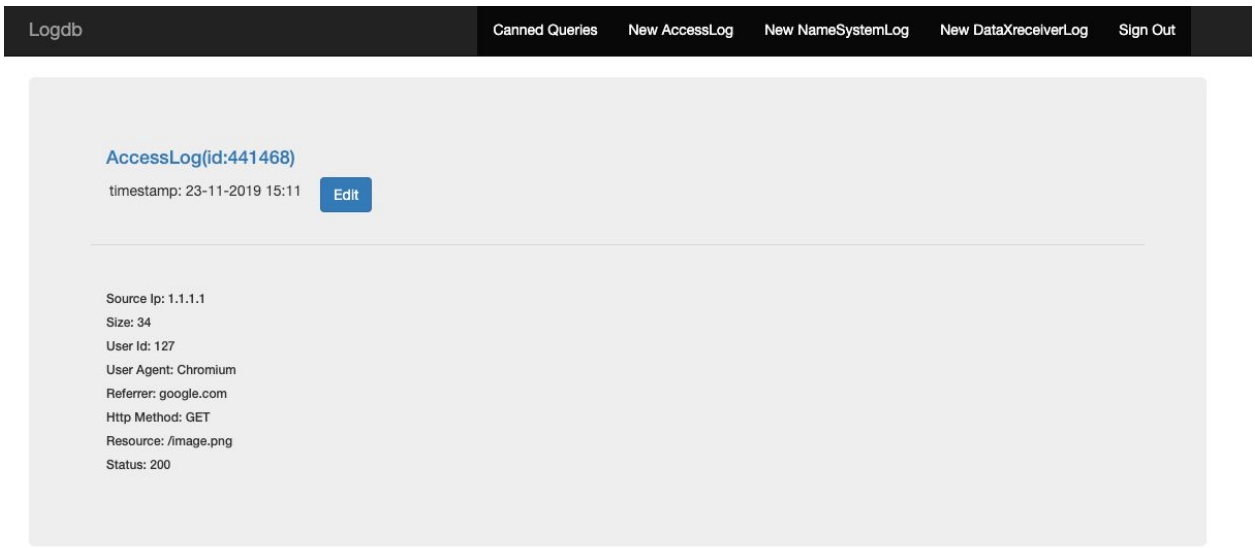
- Logout page:



- Login page:

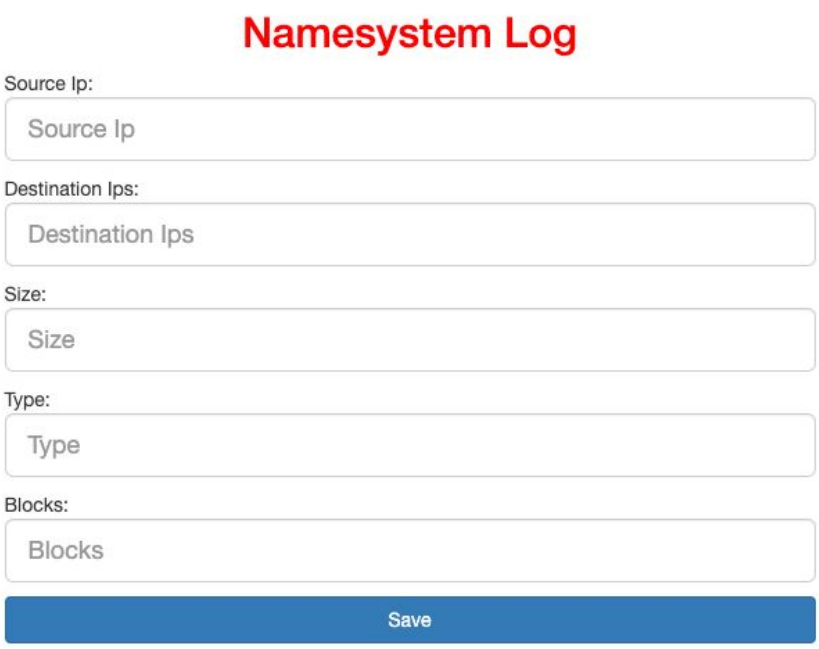


- Log details page:

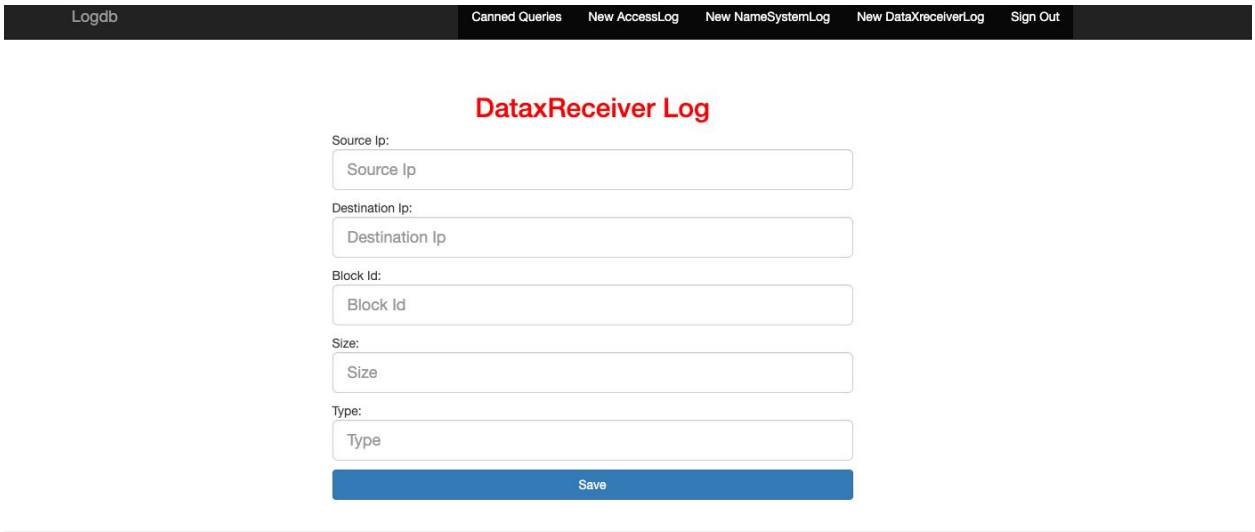


- Logged client details with role:

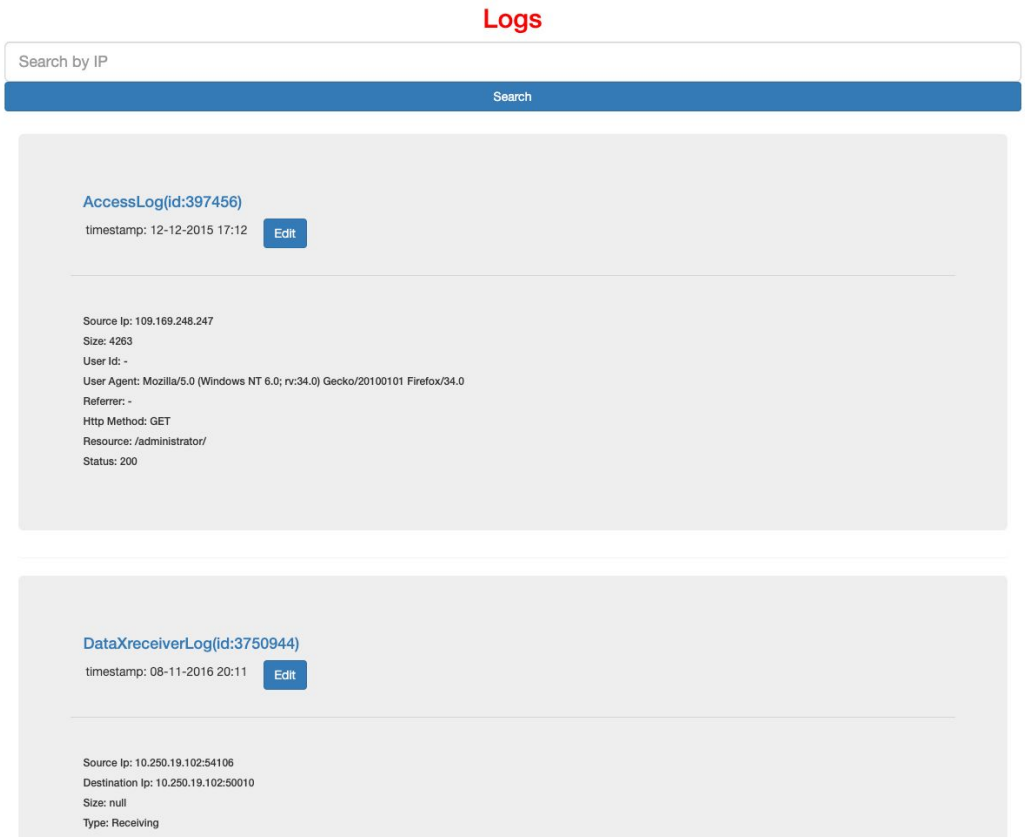
- Creation of log:



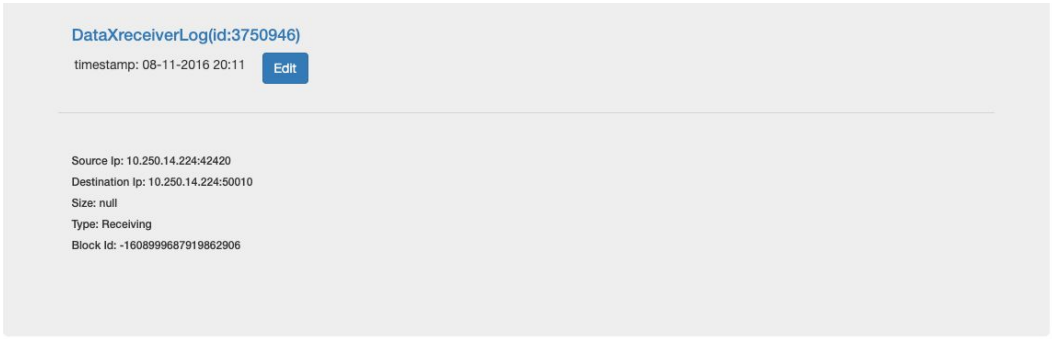
- Creation of log:

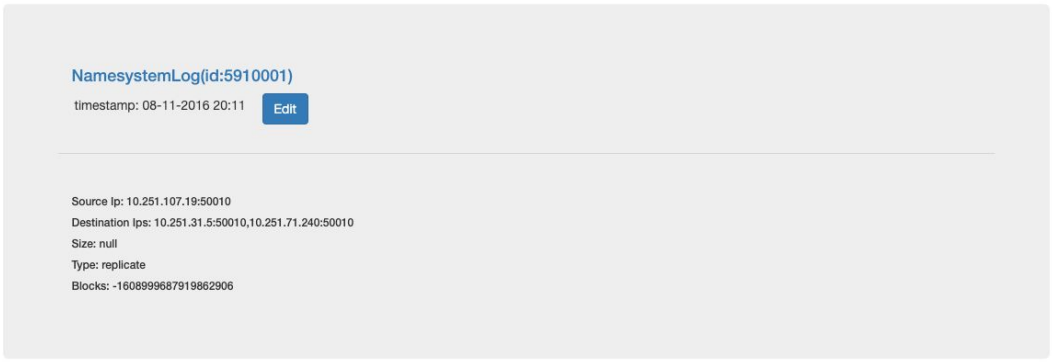


- Log list view:



- Pagination:





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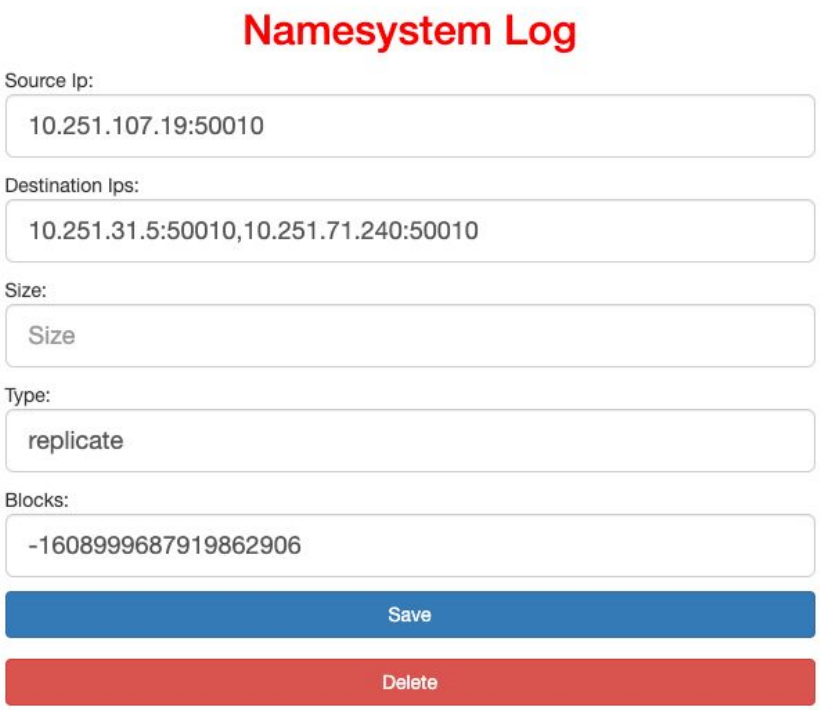
- Edit Log:



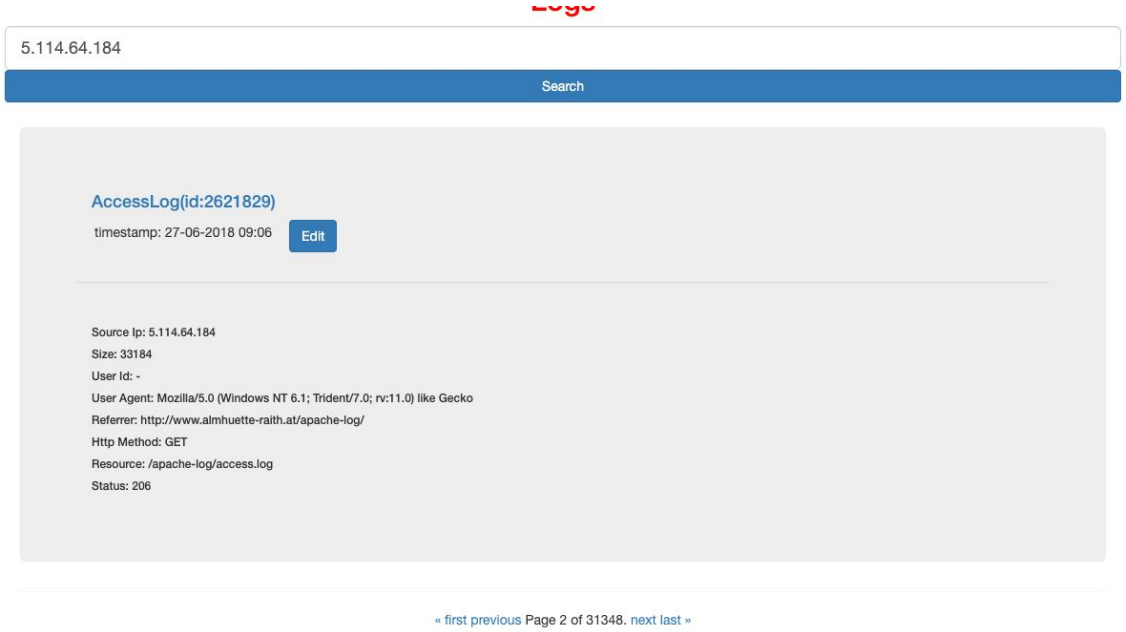
- Canned queries results page:

Type	LogCount
access	2473535
Receiving	867742
Served	42062
delete	11492
Received	4172
replicate	4150

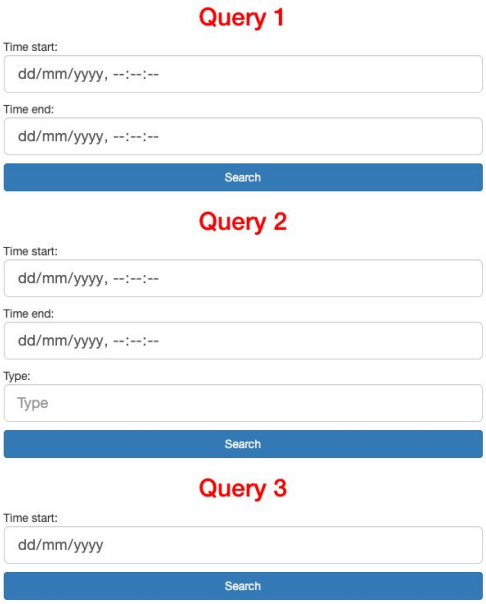
Total rows: 6

- Page does not exist:

- Search bar in action:



- Canned queries page:



Build and Run:

To run the application you can simply run:

```
docker run --rm   --name pg-docker -e POSTGRES_PASSWORD=root -d -p 5432:5432 -v $HOME/docker/volumes/postgres:/var/lib/postgresql/data  postgres
```

With the command above you will start the database that the application will communicate with.

Or edit the application.properties file to match you postgres configuration.
(Also in application.properties you should have `spring.jpa.hibernate.ddl-auto=create` *the first time you run to insert the data in the database.*
After the first run you can change it to none and comment out the parsing and inserting code from LogDbApplication.java.)

Then you can start the application with gradle using:

./gradlew bootRun