MID-EVALUATION REPORT

GROUP 15

Problem statement:

“A self hosted API for web metadata retrieval”

We are working towards making a service that returns metadata from a web page. If a user or web page wants to display data from a web page without linking to it or pasting all of its contents, this service can return a summary of information found on that URL with an appropriate thumbnail from it. The goal is to provide a free and open source API that can be expanded to be used in mobile applications in the future. Our product intends to incorporate caching to allow for better performance.

FUNCTIONAL REQUIREMENTS

1. The system should be Free and Open Source.
2. Account and Unique Identifier for Each User
3. API Endpoint to perform GET requests
4. Return metadata of the requested web-page URL on every API call
   - Title
   - Description
   - Thumbnail
5. Cache responses
6. Documentation

NON- FUNCTIONAL REQUIREMENTS

1. Reliability
2. High performance
3. Cache maintenance
4. Flexibility

Elicitation Techniques

Brainstorming

01

We as a group, discussed about various requirement that our system should have.

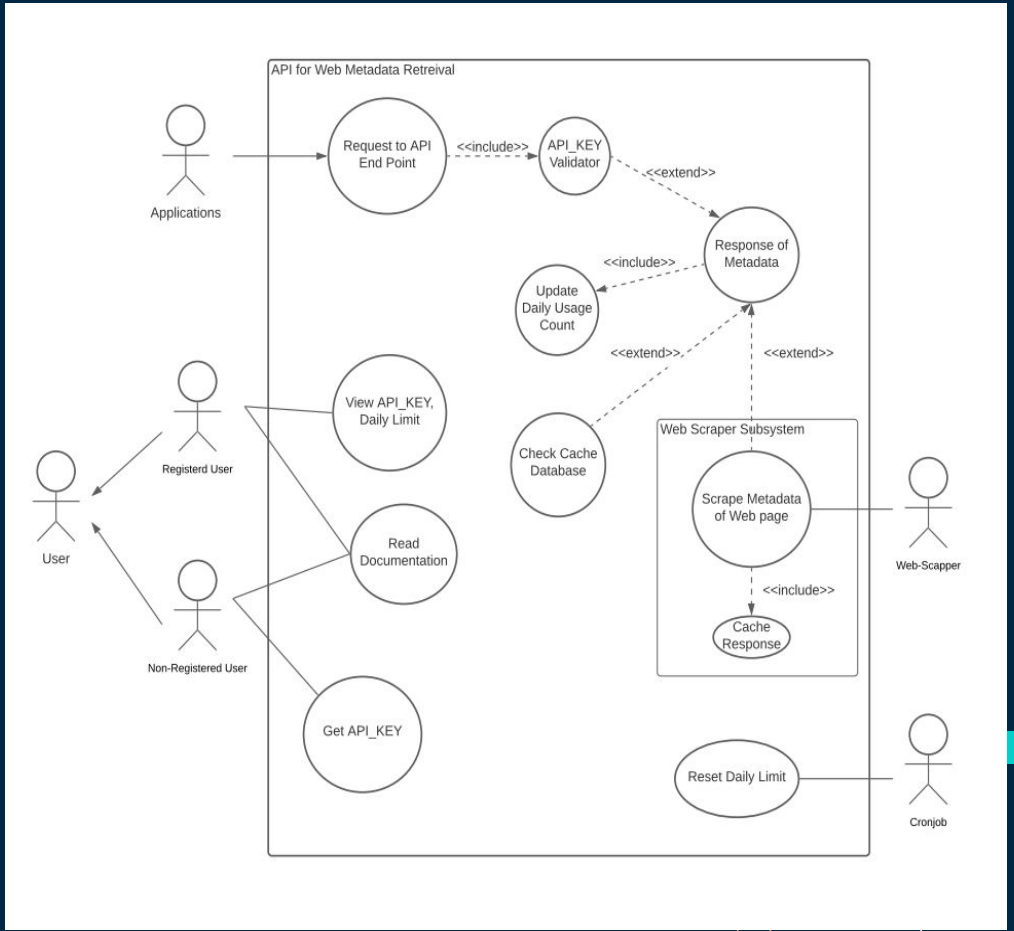
Observation and Analysis

02

Based on the observation of existing functionality, we aimed for our system to execute in similar manner.

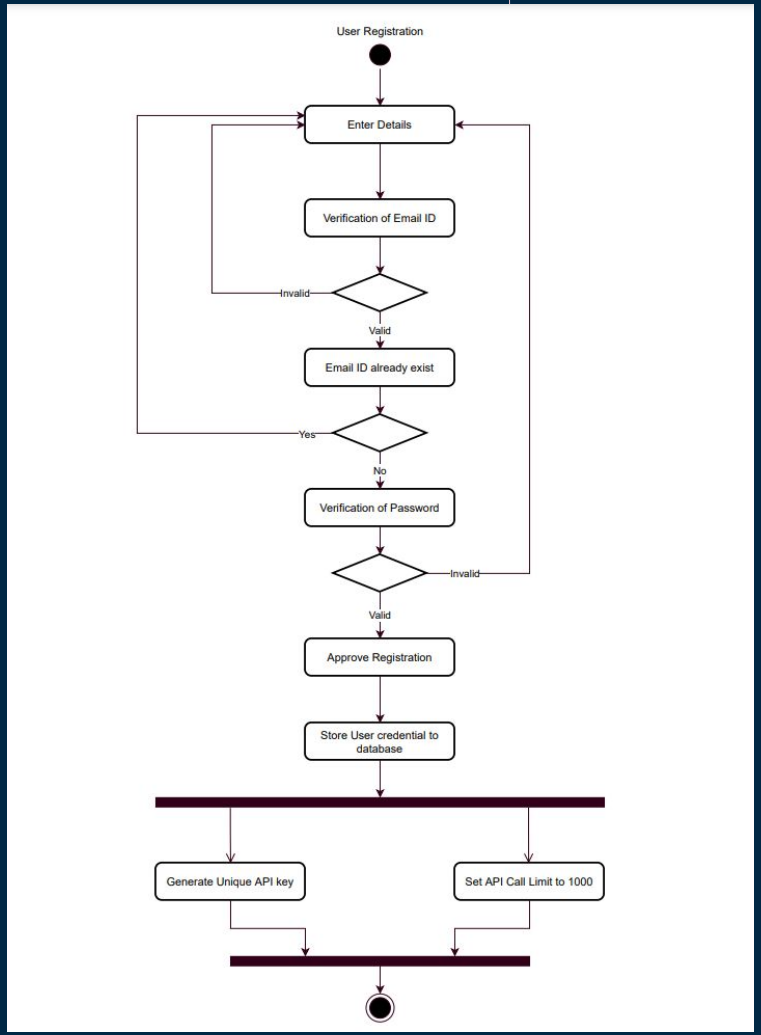
Use Case Models

1. User Authentication
2. Respond API Request
3. Daily Limit Reset
4. Cache Maintenance



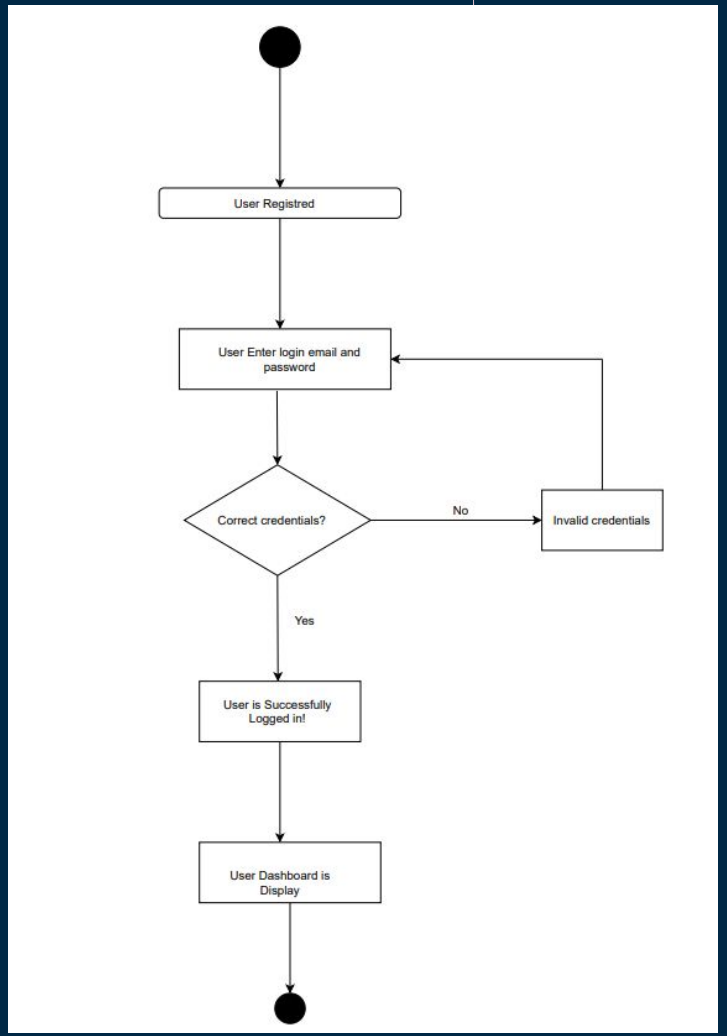
Activity diagram

- User Registration



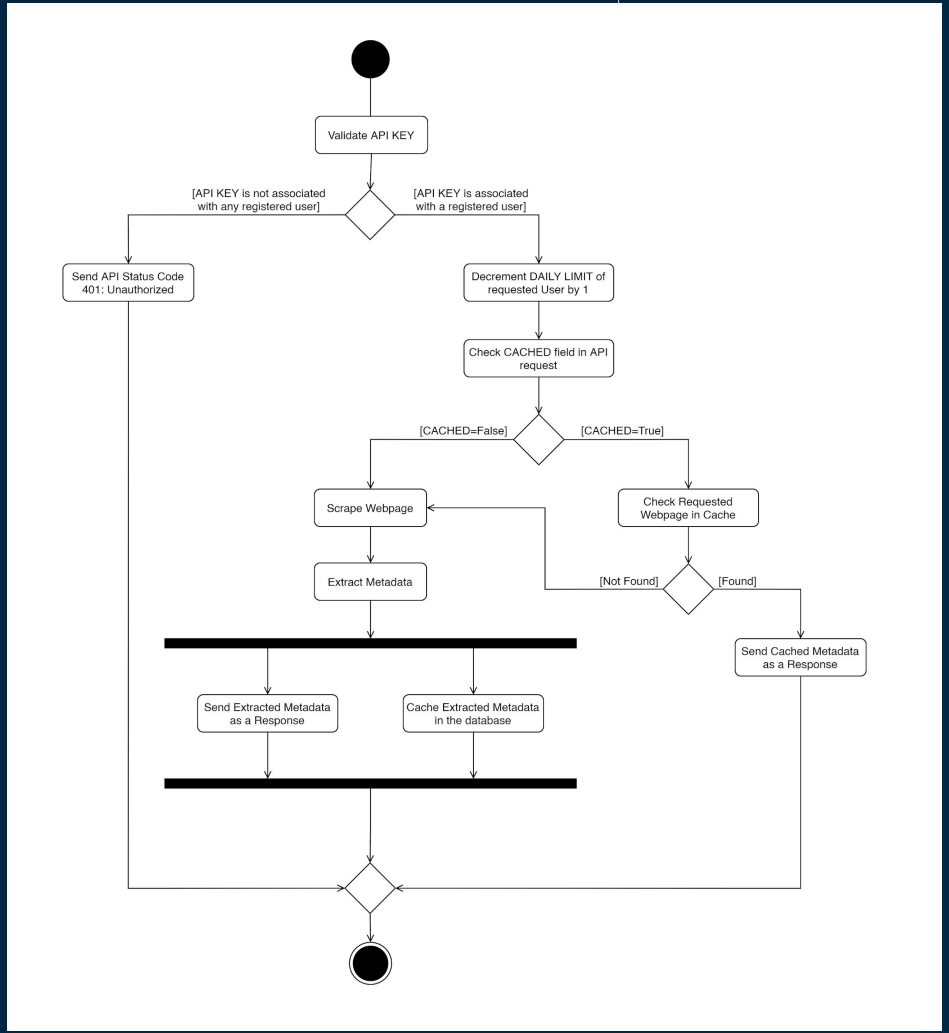
Activity diagram

- User Login



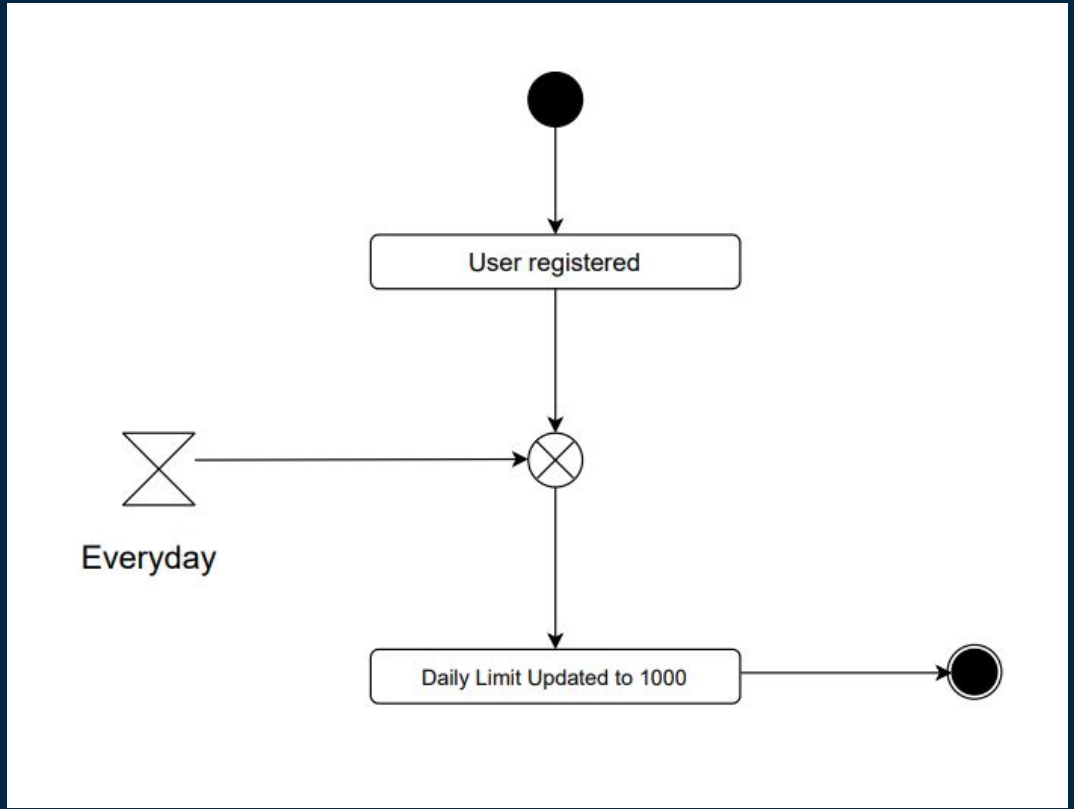
Activity diagram

- Call API End-Point



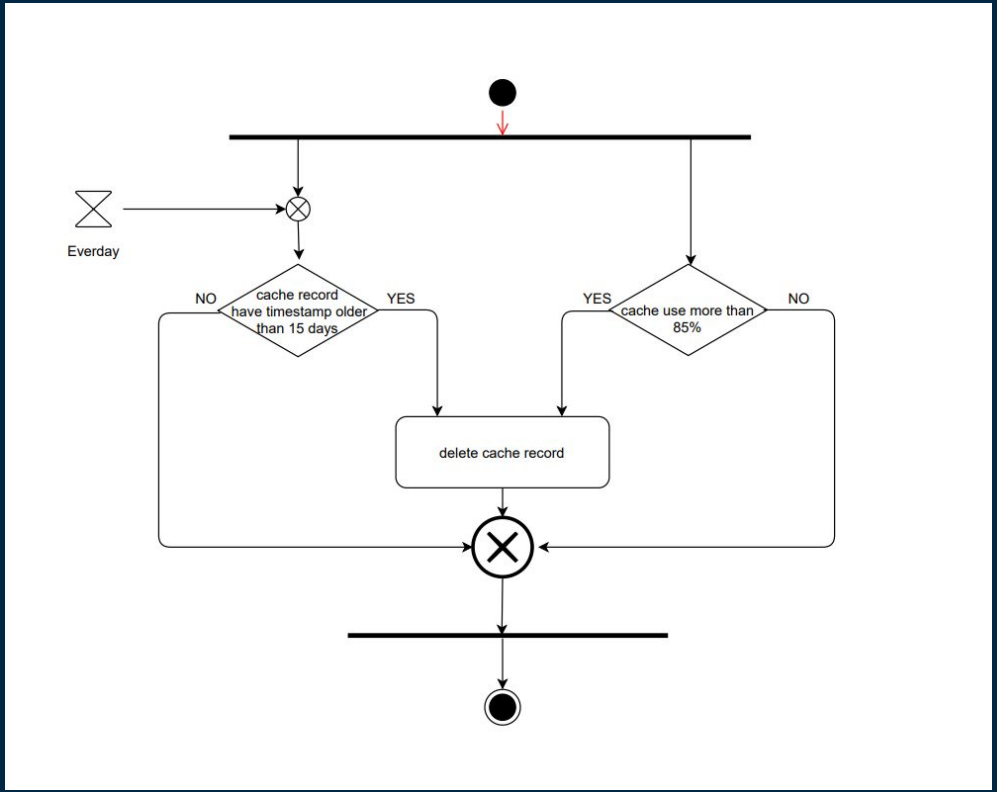
Activity diagram

- Reset Daily Limit



Activity diagram

- Cache Management



Planning for further development

We have generated issues on GitHub and assigned them to group members. As of now, we have formed sub-teams as per the below structure.

PS: We will adjust the sub-teams in the future (if needed) based on the work.

Process Model

We have chosen **Iterative-Incremental Model** for our Project.

The reasons behind choosing this model are following:

- The Scraper might need changes in future.
- Most of us are naive developers.

Team Members

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THANKYOU

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