Project Proposal

DaaS

Version 1.0

Team 11

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1. Problem Statement

Build a platform for data as a service (data.gov.in) query the data, serve the data and results to web using json format.

2. Project Description

- Crawl the data on the site data.gov.in and index it. The data given to us is in csv format.
- Explore the database which we want to use such as MySQL, mongo DB, Hive, Spark.
- Provide a GUI to store the data on our servers.
- Provide the Rest API for database queries.

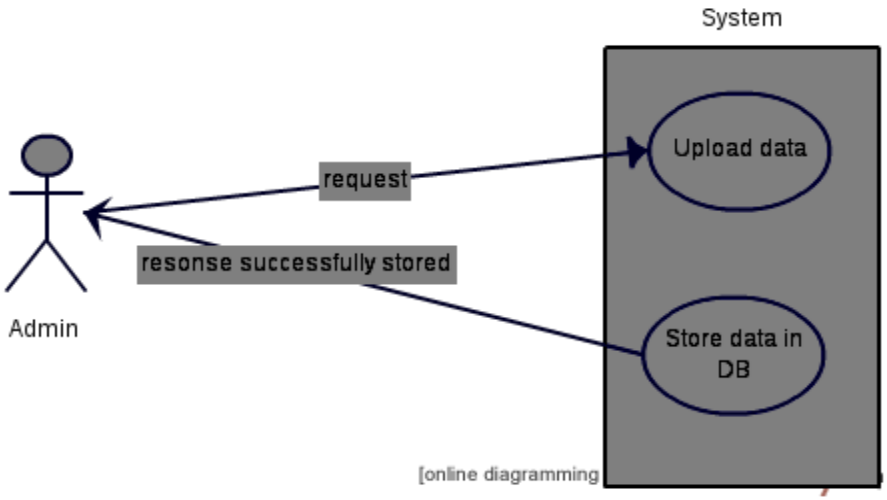
3. End Users

The data.gov.in website is designed to host information of various sectors like Agricultural based, health based, and Indian statistics.

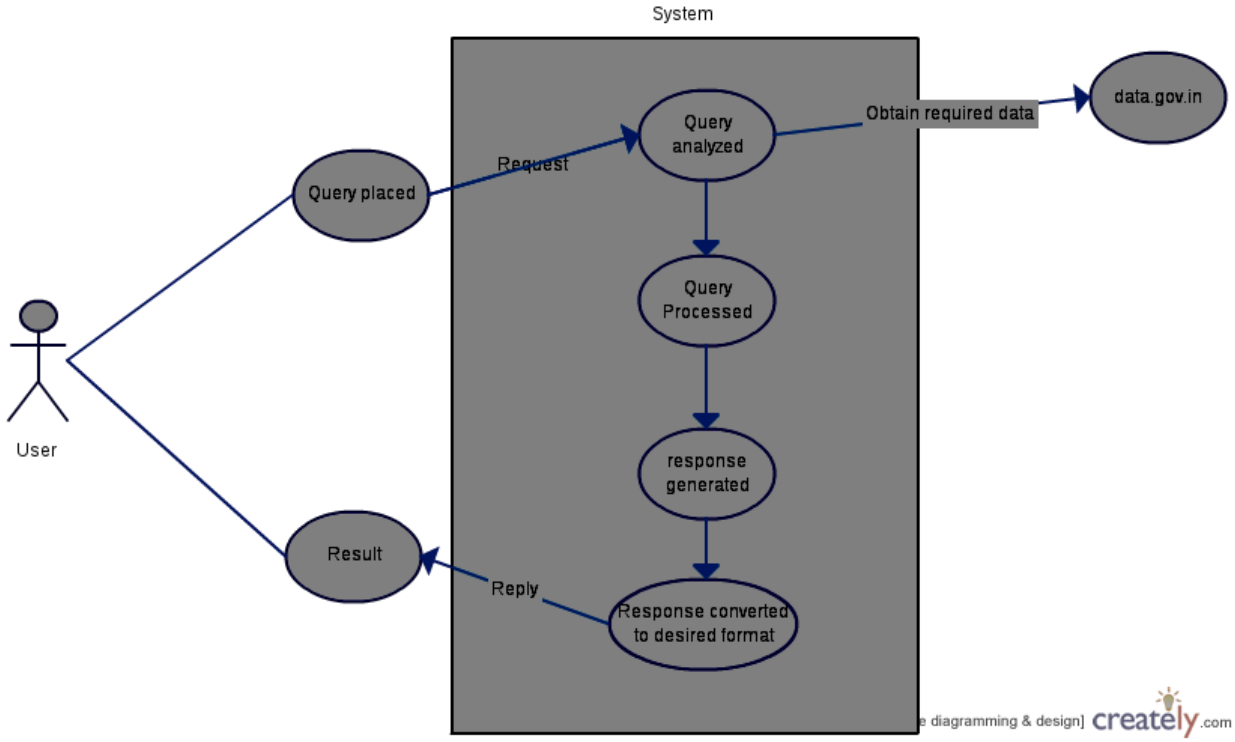
- The end users will be specific to the type of information being sought. For e.g.:
  - Collect ambulance DB available in India- Health ministry, hospital management, patients
  - Construction of deep tube wells over the years– Bureaucrats of Agriculture dept, Farmers.
- Android Application developers- Rajya Sabha Business App, All India Pin code Directory
- The project offers a GUI to Admin also, who can upload the new data.

4. User Interaction

4.1 Admin Interaction

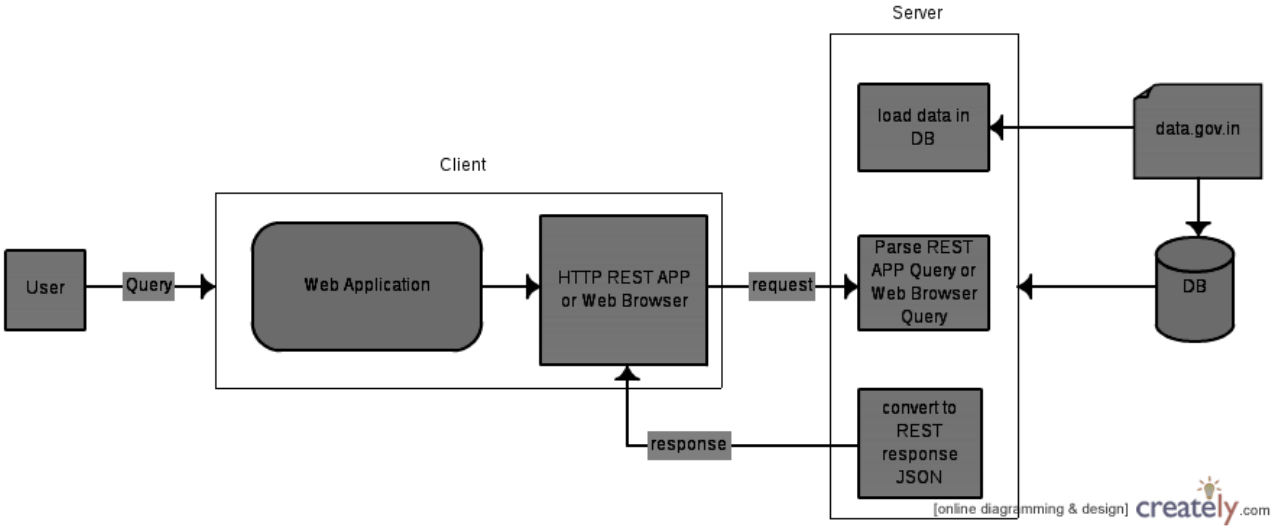


4.2 How the target user interacts with the system

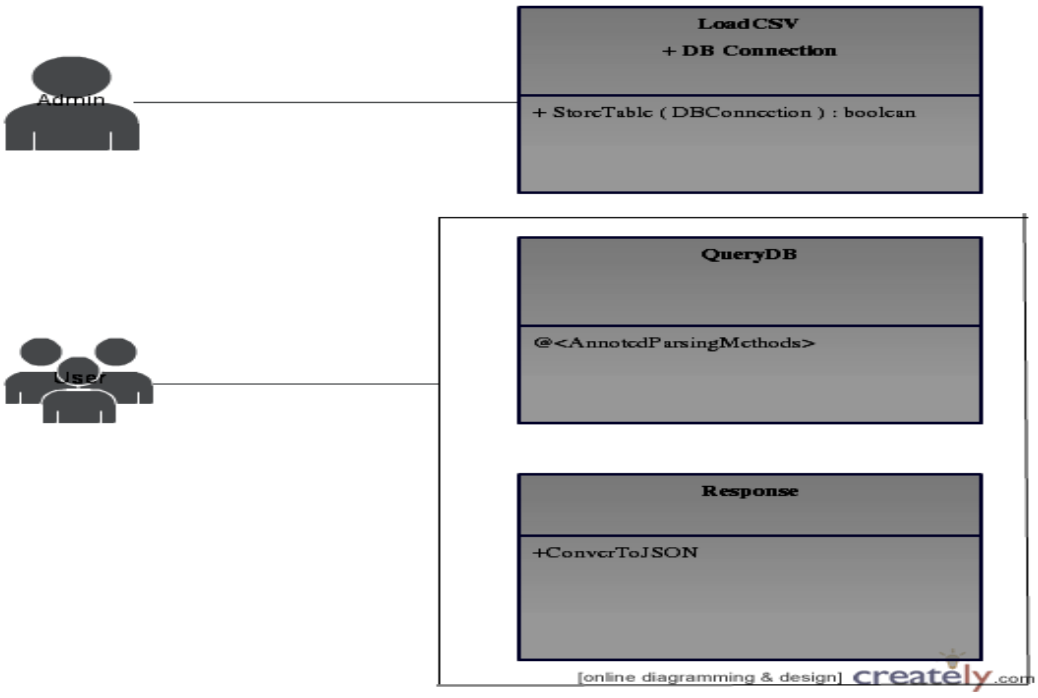


User places its queries to the system. Depending upon his query, data from data.gov.in has been extracted and processed and sent back to the user in desired form.

5. Block Diagram

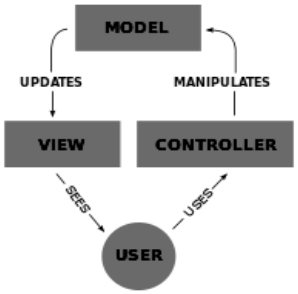


6. Detailed design Diagram



7. Technical Stack

The project will be based on MVC architecture.



- The User interface and service will be provided by REST API
- J2EE/Web2py application, Apache/Tomcat server
- Database (MySQL, Hive, Spark)

8. Minimum Expectation from the project

User will be able to query the data and required response will be displayed in json format. As data.gov.in provide data of various sectors, we plan to cover few of them if not all.