**Project name: - *OXYGEN***

**Description:**-

The application “OXYGEN” is ontology driven intent indexer for web documents, so that you can find documents based on intent.

**Installation and Running:-**

*Container based running:*

Install Docker and Docker compose.

Give the following commands to run in container

**npm install**

**npm run build**

**docker-compose –f docker-compose-dev.yml build**

**docker-compose –f docker-compose-dev.yml up**

*Non-Container based running:*

Install Neo4j, MongoDb, Redis, and RabbitMq in your machine and start all the servers

Give the following commands to run in container

**npm install**

**npm run build**

**npm run www**

**npm run search**

**npm run crawl**

**npm run parser**

**Technology stack:-**

1. Platform: **Nodejs**

2. Frontend: **Reactjs**

3. Testing: Mocha-chai and Super-agent

4. Database: Neo4j and MongoDb

5. Message Queuing: RabbitMq

6. Caching and in-memory storage system: Redis

7. Container: Docker and Docker compose

**Micro Services:-**

* Web app: www
* Searcher
* Crawler
* Intent Parser

**Ontology Elements:-**

**Domain:** The subject in which you are going to search *(JAVA)*

**Concept:** Topic under the domain *(polymorphism)*

**Sub concept:** Subtopic *(Virtual Methods)*

**Intent:** Intention or level of the search *(Beginner)*

**Term:** Word-describing intent in for or against (Introduction)

**Web documents:** API from google API’s