

Cassandra Browser Tool

(Using Cassandra and Python)

Group Number 13

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Description

Create a Cassandra Browser tool using python which provide user interface to access data from the Cassandra Server.

Project Implementation

Our Project is basically divided into three modules : Backend Server, Frontend User Interface and the Web server (interlink between the first two).

- Create a web application that interacts with Cassandra (Database server) to retrieve information about Keyspaces, Column Family and Clusters. Allowing the user to insert into database without knowing about Cassandra Query Language. Display of the data fetched from the Cassandra server in HTML format using Jinja2 templates.
- Use of Pycassa, a python application that will communicate with cassandra server to fetch data based on the queries filed by the user. Managing and monitoring Cassandra server on different nodes for large database.
- A Web Server (made use of Flask API in python) running communicates with the User Interface through HTTP requests and response objects and further communicates with the python API (Pycassa).

Link to Source Code and Documentation of our Project

The Source Code for the project can be checked out at github link which is public :

<https://github.com/CloudProjectWork/CassandraBrowserTool>