Movie Q Requirements Document

5.1  Requirements Introduction

The system designed in my 402 project will be 3 different databases––PostgreSQL, Cassandra, and Elastic Search. I will be able to access all 3 databases on my local machine. I will be importing a dataset titled called “The Movies Dataset” which has movie metadata on 45,000 movies, keyword data, and ratings data. I will perform complex queries on the dataset and analytics. I will create a GitHub pages website that will show my results. Section 5.2 of this document will describe the Functional Requirements of the project;

5.2  Functional Requirements

The feature my project is supposed to have is the ability to query the databases. The interesting portion of this will be the types of queries that will be run. Another feature is that any person will be able to go to my webpage and query the PostgreSQL database.

5.2.1 Use PostgreSQL

5.2.1.1 A user shall be able to run all standard SQL queries from the webpage.

Examples of possible SQL queries include the following commands:

Select, Where, Order By, Group By, and Join

5.2.1.2 A user shall get a response for every correct SQL query inputted.

5.2.2 Use Cassandra DB

5.2.2.1 A user shall be able to query the Cassandra, wide column NoSQL, database from my laptop.

5.2.2.2 A user shall be able to perform complex CQL language queries to look up, store, or change data in the database.

5.2.3 Use Elastic Search

5.2.3.1 A user shall be able to query Elastic Search using the Query DSL.

5.2.3.2 A user shall be able to run both Query context and Filter context queries