

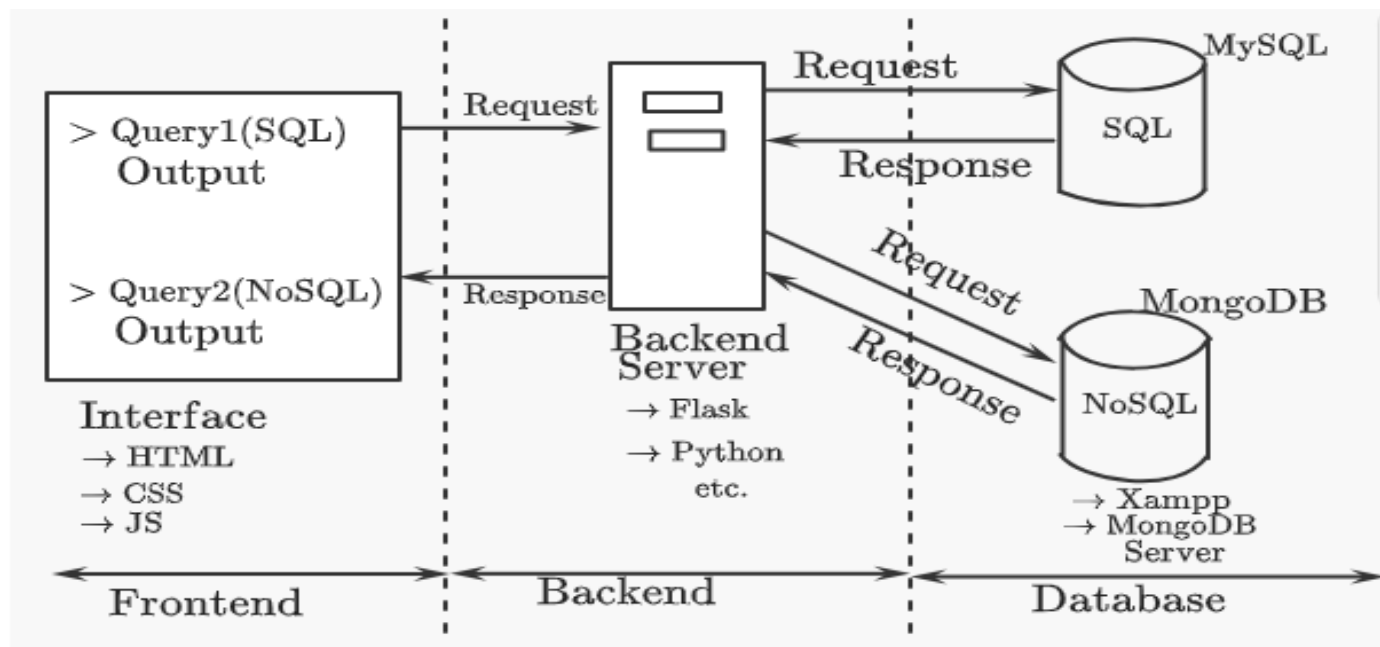
Project Documentation

Project Name : Unified Query Interface for multiple database

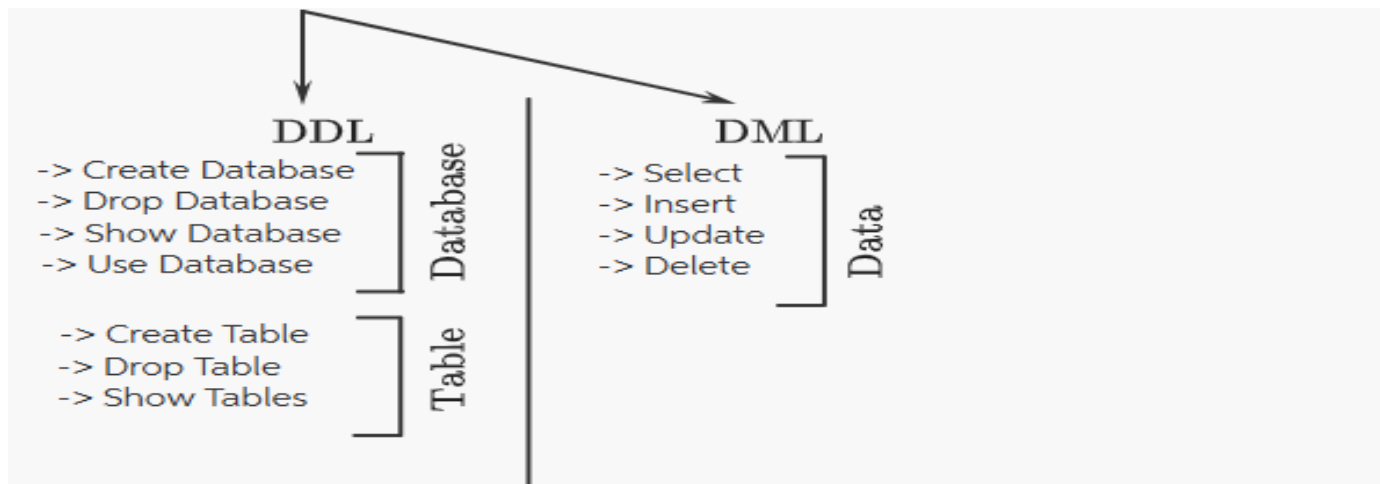
Project Category: Utility tools

1. Interface for multiple database
2. Query language

Project Architecture:



Project Functionality:



DDL -> Data Definition Language

DML -> Data Manipulation Language

DCL -> Data Control Language (Grant , Revoke)

TCL -> Transaction Control Language (Commit , Roll back etc.)

*** For Future Implementation**

-> More DDL, DML Commands

-> Add, DCL, TCL

(1) Database Functionality:

		SQL	NoSQL
(A)	Create Database	✓	✓
(B)	Show Database	✓	✓
(C)	Delete Database	✓	✓
(D)	Use Database	✓	✓

(2) Table Functionality:

		SQL	NoSQL
(A)	Create Table	✓	✓
(B)	Delete Table	✓	✓
(C)	Show Tables	✓	✓

(3) Data Functionality:

		SQL	NoSQL
(A)	Insert data into Table	✓	✓
(B)	Show data from Table	✓	✓
(C)	Update data	✓	✓
(D)	Delete data	✓	✓

Query Structure / Syntax / Commands available:

General Command_: help, docs, clear, hello, exit, animate

* SQL: (MySQL)

- (1) Make database < database >
- (2) display databases
- (3) remove database < database Name >
- (4) choose database < database Name >

SQL Database
Query

- (5) make table < table Name >
(< Column Name > < Datatype > < Auto-Increment > < Primary-key >,
< Column Name > < Datatype >.....
)
- (6) remove table < Table Name >
- (7) display tables

SQL Table
Query

- (8) add into < tablename > (< Column1 >, < Column2 >,...)
Values (value1, value2,.....)
- (9) display from < table name > column 1, column2 Condition < condition >
- (10) remove from < table name > Condition < condition >
- (11) change in <table name> update <column =value> Condition <Condition>

SQL Data
Query

NoSQL: (MongoDB)

(1) Make ns database < database name >
or

Make ns database < database name > < collection name >

(2) display ns database

(3) remove ns database < database name >

(4) choose ns database <database name >

NoSQL Database
Query

(5) make collection < collection name>

(6) remove collection < collection name >

(7) display collections

NoSQL collection
Query

(8) add ns into < collection name > < jsondata >

(9) display ns from < collection name>
or

display ns from < collection name > column1 column2 condition < condition >

(10) remove ns from < collection name > condition < condition >

(11) change ns in <collection name>update <field1=value1>,<field2=value2>condition <condition>

NoSQL
Data
Query