My Project

Generated by Doxygen 1.13.2

Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 2

File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

Chapter 3

Class Documentation

3.1 StorageEngine Class Reference

A simple key-value storage engine.

`#include <storage_engine.h>`

Public Member Functions

- void set (const std::string &key, const std::string &value)
  Sets the value for a given key.
- std::string get (const std::string &key)
  Gets the value associated with a key.
- void del (const std::string &key)
  Deletes a key-value pair.

3.1.1 Detailed Description

A simple key-value storage engine.

3.1.2 Member Function Documentation

3.1.2.1 del()

```
void StorageEngine::del (
            const std::string & key)
```

Deletes a key-value pair.

Parameters

key	The key.

3.1.2.2 get()

```
std::string StorageEngine::get (
            const std::string & key)
```

Gets the value associated with a key.

Parameters

key	The key.

Returns

The value, or "NULL" if not found.

3.1.2.3 set()

```
void StorageEngine::set (
            const std::string & key,
            const std::string & value)
```

Sets the value for a given key.

Parameters

key	The key.
value	The value.

The documentation for this class was generated from the following files:

- src/storage_engine.h
- src/storage_engine.cpp

Chapter 4

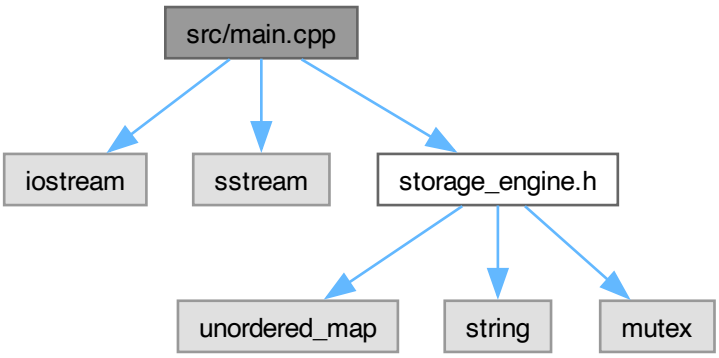
File Documentation

4.1 src/main.cpp File Reference

REPL for interacting with the StorageEngine.

```
#include <iostream>
#include <sstream>
#include "storage_engine.h"
```

Include dependency graph for main.cpp:



Functions

- int **main** ()

4.1.1 Detailed Description

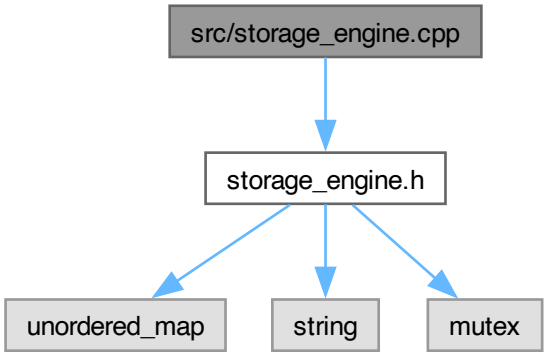
REPL for interacting with the StorageEngine.

4.2 src/storage_engine.cpp File Reference

Implementation of the StorageEngine class.

```
#include "storage_engine.h"
```

Include dependency graph for storage_engine.cpp:



4.2.1 Detailed Description

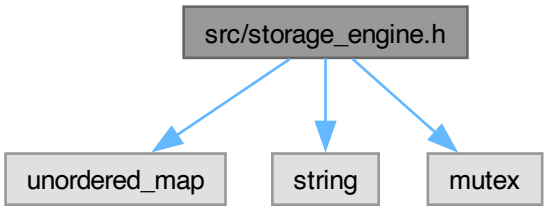
Implementation of the StorageEngine class.

4.3 src/storage_engine.h File Reference

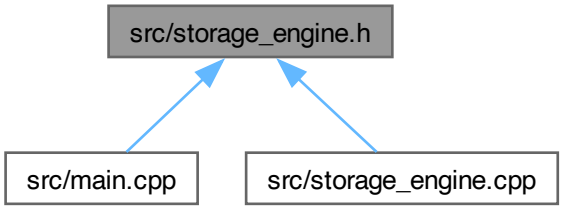
Declaration of StorageEngine class for in-memory key-value storage.

```
#include <unordered_map>
#include <string>
#include <mutex>
```

Include dependency graph for storage_engine.h:



This graph shows which files directly or indirectly include this file:



Classes

- class StorageEngine

  A simple key-value storage engine.

4.3.1 Detailed Description

Declaration of StorageEngine class for in-memory key-value storage.

4.4 storage_engine.h

Go to the documentation of this file.

```
00001
00005 #ifndef STORAGE_ENGINE_H
00006 #define STORAGE_ENGINE_H
00007
00008 #include <unordered_map>
00009 #include <string>
00010 #include <mutex>
00011
00015 class StorageEngine {
00016 private:
00017     std::unordered_map<std::string, std::string> db;
00018     std::mutex db_mutex;
00019
00020 public:
00026     void set(const std::string &key, const std::string &value);
00027
00033     std::string get(const std::string &key);
00034
00039     void del(const std::string &key);
00040 };
00041
00042 #endif
```

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