

util.cpp - File-Based-Key-Value-Map-cpp - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

create.cpp main.cpp update.cpp .gitignore modify.cpp read.cpp remove.cpp util.cpp

OPEN EDITORS

util.cpp > get_lineindex(string &, string &)

FILE-BASED-KEY-VALUE-M...

.vscode

settings.json

.gitignore

arnab.txt

create.cpp

file.txt

insert.cpp

main.cpp

main.exe

modify.cpp

read.cpp

remove.cpp

Unit Test.pdf

update.cpp

util.cpp

OUTLINE

TIMELINE

NPM SCRIPTS

AWS CDK EXPLORER (PRE...

```
120 stringstream check1(s);
121 string intermediate;
122 while (getline(check1, intermediate, ' '))
123 {
124     tokens.push_back(intermediate);
125 }
126
127 if (file_size + input_size > 1024 * 1024 * 1024)
128 {
129     *err_message = " File size limit exceeded";
130     return false;
131 }
132 //checking key size
133 if (tokens[0].size() > 32)
134 {
135     *err_message = " key size exceeded limits";
136     return false;
137 }
138
139 //checking value size
140 if (tokens[1].size() > 1024 * 16)
141 {
142     *err_message = " key size exceeded limits";
143     return false;
144 }
145
146 return true;
147 }
```

Constraints on file and key/value size

Ln 89, Col 2 Spaces: 4 UTF-8 CRLF C++ AWS: (not connected) Win32

```
D:\Ar nab\Freshworks\File-Based-Storage-cpp>g++ create.cpp insert.cpp main.cpp modify.cpp read.cpp util.cpp remove.cpp update.cpp -o main -std=c++17
D:\Ar nab\Freshworks\File-Based-Storage-cpp>.\main
```

WELCOME TO THE FILE MANAGEMENT SYSTEM

Enter the path of the file to be created (optional):
Enter the file name to be created (optional): ar nab.txt

← File creation

File is created.

Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 1
Enter content in order (key value time-to-live): key1 23 987

← Key-Value insertion

Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 1
Enter content in order (key value time-to-live): key2 78 5

← Insertion with time-to-live of 5 seconds

Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 2
Enter the key to be searched: key1
key1 23

← Reading a key

Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 2
Enter the key to be searched: key2
key not available

← Reading key after expiry (After 5 seconds)

Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 2
Enter the key to be searched: key3
key not available

← Reading non-inserted key

Operations:
0.Exit
1.Insert
2.read
3.Modify

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 1
Enter content in order (key value time-to-live): key4 78 9870
```

← Additional key-value insertions

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 1
Enter content in order (key value time-to-live): key5 78 9876
```

← Value modification for a chosen key

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 3
Enter the key to be modified: key4
Enter the value for the key: 90

key4 90 1606844055
```

← Deletion of a chosen key

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 4
Enter the key to be deleted: key5

Successful deletion
```

← Attempting to read a deleted key

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
4.Delete
Enter your choice: 2
Enter the key to be searched: key5
key not available
```

```
Operations:
0.Exit
1.Insert
2.read
3.Modify
```