Lab 4 - Map, Hashtable, and try-catch exception

Missing 20 Points Possible

4/20/2024

Attempt 1

In Progress

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Unlimited Attempts Allowed

4/8/2024

Details

Given a working example of the Task List Application using LinkedStack.

See lab4-template-4-7-2024.zip (https://ohlone.instructure.com/courses/29469/files/5245878?wrap=1)
(https://ohlone.instructure.com/courses/29469/files/5245878/download?download_frd=1)

The objective of this lab exercise is to convert this application to use try-catch exceptions, maps, and hash tables instead of linked stack. You have This should be an easy assignment.

Important: You need to tell me exactly what changes you made.

Requirements:

1) Use the try-catch exception
Example: openFile fails, then catch the error and allow the user to retry.

```
try {
  file.open(name) and reading Discussion
} catch (DiscussionException ex) {
 // do something
}
```

2) Use map and hashtable in DiscussionMenu for doView, doEdit, etc.
See C++ Program to Implement Hashtables (tutorialspoint.com)
Hint for generating hash-code:

```
int hash_code(const string& str) {
  int h = 0;
  for (int i = 0; i < str.length(); i++)  {
    h = 31 * h + str[i];
  }
  return h;
}
```

3) Use <iomanip> to format the output for cout and follow the C++ Programming guidelines

Submission: lab4-<your name>.zip and **the screenshots of the output**.

Importantly: Your lab assignment is to be done individually. You may discuss the concepts with other students in class. You may not copy someone else's work.

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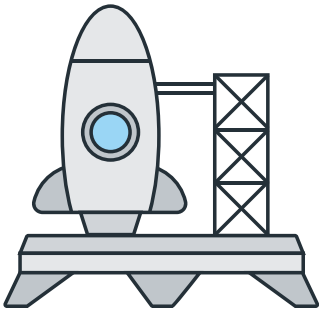

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