



main.cpp



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```
1 #include <iostream>
2 #include <vector>
3 #include <string>
4
5 struct Task {
6     std::string description;
7     bool completed;
8
9     Task(const std::string& desc) : description(desc), completed(false) {}
10 };
11
12
13 void displayMenu() {
14     std::cout << "\n==== TO-DO LIST MENU ==== \n";
15     std::cout << "1. Add Task \n";
16     std::cout << "2. View Tasks \n";
17     std::cout << "3. Mark Task as Completed \n";
18     std::cout << "4. Remove Task \n";
19     std::cout << "5. Exit \n";
20     std::cout << "Choose an option (1-5): ";
21 }
22
23
24 void addTask(std::vector<Task>& tasks) {
25     std::string description;
26     std::cin.ignore(); // clear buffer
27     std::cout << "Enter the task description: ";
28     std::getline(std::cin, description);
29     tasks.emplace_back(description);
30     std::cout << "Task added successfully. \n";
31 }
32
33
34 void viewTasks(const std::vector<Task>& tasks) {
```



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```
34- void viewTasks(const std::vector<Task>& tasks) {
35-     if (tasks.empty()) {
36-         std::cout << "No tasks in the list.\n";
37-         return;
38-     }
39-
40-     std::cout << "\nYour Tasks:\n";
41-     for (size_t i = 0; i < tasks.size(); ++i) {
42-         std::cout << i + 1 << ". [" << (tasks[i].completed ? "✓" : " ") << "] "
43-             << tasks[i].description << "\n";
44-     }
45- }
46-
47-
48- void markTaskCompleted(std::vector<Task>& tasks) {
49-     if (tasks.empty()) {
50-         std::cout << "No tasks to mark as completed.\n";
51-         return;
52-     }
53-
54-     int index;
55-     viewTasks(tasks);
56-     std::cout << "Enter the task number to mark as completed: ";
57-     std::cin >> index;
58-
59-     if (index < 1 || index > static_cast<int>(tasks.size())) {
60-         std::cout << "Invalid task number.\n";
61-     } else {
62-         tasks[index - 1].completed = true;
63-         std::cout << "Task marked as completed.\n";
64-     }
65- }
66-
67-
```



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```
64     }
65 }
66
67
68 void removeTask(std::vector<Task>& tasks) {
69     if (tasks.empty()) {
70         std::cout << "No tasks to remove.\n";
71         return;
72     }
73
74     int index;
75     viewTasks(tasks);
76     std::cout << "Enter the task number to remove: ";
77     std::cin >> index;
78
79     if (index < 1 || index > static_cast<int>(tasks.size())) {
80         std::cout << "Invalid task number.\n";
81     } else {
82         tasks.erase(tasks.begin() + index - 1);
83         std::cout << "Task removed successfully.\n";
84     }
85 }
86
87
88 int main() {
89     std::vector<Task> tasks;
90     int choice;
91
92     do {
93         displayMenu();
94         std::cin >> choice;
95
96         switch (choice) {
97             case 1:
```



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```
88 - int main() {
89     std::vector<Task> tasks;
90     int choice;
91
92 -     do {
93         displayMenu();
94         std::cin >> choice;
95
96 -         switch (choice) {
97             case 1:
98                 addTask(tasks);
99                 break;
100            case 2:
101                viewTasks(tasks);
102                break;
103            case 3:
104                markTaskCompleted(tasks);
105                break;
106            case 4:
107                removeTask(tasks);
108                break;
109            case 5:
110                std::cout << "Exiting To-Do List Manager. Goodbye!\n";
111                break;
112            default:
113                std::cout << "Invalid choice. Please try again.\n";
114        }
115
116    } while (choice != 5);
117
118    return 0;
119 }
```

==== TO-DO LIST MENU ====

1. Add Task
2. View Tasks
3. Mark Task as Completed
4. Remove Task
5. Exit

Choose an option (1-5): 1

Enter the task description: update

Task added successfully.

==== TO-DO LIST MENU ====

1. Add Task
2. View Tasks
3. Mark Task as Completed
4. Remove Task
5. Exit

Choose an option (1-5): 3

Your Tasks:

1. [ ] update

Enter the task number to mark as completed: 1

Task marked as completed.

==== TO-DO LIST MENU ====

1. Add Task
2. View Tasks
3. Mark Task as Completed
4. Remove Task
5. Exit

Choose an option (1-5): 5

5

Exiting To-Do List Manager. Goodbye!