**TERMINAL BASED TEXT EDITOR 2016**

Technical Manual

Team TermEdit

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Source code:

https://github.com/mickmikea/240-project.git

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**Program Overview**

This terminal based text editor is created using ncurses.

**Program Structure**

**List of Source Files and Headers**

**.CPP Files**

|  |  |
| --- | --- |
| main.cpp | Contains the main function, which is called at program startup |
| edit.cpp | Contains the functions of edit class |
| keybind.cpp | --- |
| read\_write\_file.cpp | Contains the functions of read\_write\_file class |
| undo.cpp | Contains the functions of undo class |

**.H Files**

|  |  |
| --- | --- |
| edit.h | Contains the definitions of the functions and attributes of edit class |
| keybind.h | Contains the definitions of the functions and attributes of keybind class |
| read\_write\_file.h | Contains the definitions of the functions and attributes of read\_write\_file class |
| undo.h | Contains the definitions of the functions and attributes of undo class |

**List of Functions**

*Main Functions (main.cpp)*

|  |  |
| --- | --- |
| main(int argc, char\*\* argv) |  |

*Editor Functions (edit.cpp)*

|  |  |
| --- | --- |
| Editor::Editor(WINDOW\* window) |  |
| keypad(window, true) |  |
| setupKeybindings() |  |
| Editor::run() |  |
| Editor::printLines() |  |
| Editor::drawStatusBar() |  |
| Editor::checkLineBounds() |  |
| Editor::backspace(std::string& line, char keyPressed) |  |
| Editor::newline(std::string& line, char keyPressed) |  |
| Editor::keyUp(std::string& line, char keyPressed) |  |
| Editor::keyDown(std::string& line, char keyPressed) |  |
| Editor::keyLeft(std::string& line, char keyPressed) |  |
| Editor::keyRight(std::string& line, char keyPressed) |  |
| Editor::saveFile(std::string& line, char keyPressed) |  |
| Editor::loadFile(std::string& fileName, char keyPressed) |  |
| Editor::setupKeybindings() |  |

*Functions to read and write a file (read\_write\_file.cpp)*

|  |  |
| --- | --- |
| read\_write\_file::read\_file(std::string name) |  |
| read\_write\_file::write\_file(std::vector<std::string> text, std::string name) |  |

*Undo Functions (undo.cpp)*

|  |  |
| --- | --- |
| void UndoManager::undo(WINDOW\* window) |  |
| void UndoManager::redo(WINDOW\* window) |  |
| void UndoManager::addAction(UndoAction act) |  |

**Cross Reference**

**Editor functions (edit.cpp)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Used in** | | **Functions called within** | |
| Editor::Editor(WINDOW\* window) | |  | |  |
| keypad(window, true) | |  | |  |
| setupKeybindings() | |  | |  |
| Editor::run() | |  | |  |
| Editor::printLines() | |  | |  |
| Editor::drawStatusBar() | |  | |  |
| Editor::checkLineBounds() | |  | |  |
| Editor::backspace(std::string& line, char keyPressed) | |  | |  |
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| Editor::setupKeybindings() | |  | |  |

**Functions to read and write files (read\_write\_files.cpp)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Used in** | | **Functions called within** | |
| read\_write\_file::read\_file(std::string name) | |  | |  |
| read\_write\_file::write\_file(std::vector<std::string> text, std::string name) | |  | |  |

**Undo Functions (undo.cpp)**

|  |  |  |  |  |
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| **Function** | **Used in** | | **Functions called within** | |
| void UndoManager::undo(WINDOW\* window) | |  | |  |
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| void UndoManager::addAction(UndoAction act) | |  | |  |

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