

WortFischer



??? Software
Project Group B

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TABLE OF CONTENTS

Introduction	3
Project Management	4
Team Organization	4
Risk Management	4
Development Process	4
Coding Conventions	4
Code Review Process	4
Communication Tools	5
Change Management	5
Appendices	6
Appendix A	6

INTRODUCTION

While codeblocks does contain a search and replace function in its original program, a user may find themselves needing to change the names or wording of a certain function or classes across multiple files. Unfortunately, there is no easy way to do this. Our plugin hopes to alleviate that issue by allowing a user to replace strings of words with a desired replacement across a series of stated files.

PROPOSAL

Our plan for our project is to make a plugin which allows a user to replace a string with another string in all related files to the project being worked on. The user will be able to specific the range that is replaced and all files for which the string is replaced in. The user can specify either the directory, the range of files, or the file names themselves. File extensions may also need to be specified as well, so that the correct type of files are used.

Features:

MUST HAVE:

- Ability to change words across a file with a provided replacement
- Ability to change an entire directory

WOULD BE NICE:

- Ability to change a single file in the directory when specified
- Have the user able to specify a specific file type only

Wishlist:

- A GUI interface for the plugin

PROJECT MANAGEMENT

TEAM ORGANIZATION

Zach Nelson - Team Lead, Software Developer, Software Tester

David Adams - Quality Assurance Lead, Software Developer, Software Tester

Shohei Saito - Documentation Lead, Software Developer, Software Tester

RISK MANAGEMENT

-In the case that somebody leaves the group, we can cut down on some of the following functions of the plugin:

- User may have to stay in the current directory

- We can also cut down the requirements of the GUI, and opt for a simpler appearance.

-In the case that we find that we have planned too much to do, or we find that we are not experienced with the Codeblocks software itself, we can also reduce the following:

- Only allow the replacement of small strings across multiple files

- Alternatively, we could change it so that a user is only able to replace the string across a single file.

- A third option is that we could change the project so that the user is only able to select files from a single directory.

DEVELOPMENT PROCESS

CODING CONVENTIONS

- Separate lines for brackets

- Tabs will be used instead of spaces

- Naming convention used is where the first word has a lowercase and the second word begins with a capital letter. Ex: thisWord

- When defining new classes, an underscore will go in the middle of the class name, before the H. Ex: `IFDEF CLASS_H`

Code Review Process

- Informal walkthroughs of our code will be done regularly, often we will make sure that other people are inspecting our codes to make sure that they actually work and follow the proper conventions.

-Before any developer begins working on a section of code, they MUST pull the latest version before they begin working. This will help aid in reducing wasted time by redoing already finished code. When a user is done, they must immediately push the files onto the github so that the latest versions are accessible by everyone.

COMMUNICATION TOOLS

- Email
- Face to face communication
- Regular group meetings.
- Slack

CHANGE MANAGEMENT

- If there are any additional added features or requests, the request should be sent to all group members so that we could divide the work on these new areas up as evenly as possible.
- Bug reports should also be sent to each team member so that we all know what needs to be fixed

APPENDIX A: FIGURES AND TABLES

