|  |
| --- |
| Team Members:Name Student Number Primary Role Secondary Role Adam Noonan C12492572 Documentor Coder  Daryl Winslow C12730541 Team Leader Coder  Stephen Pollard C11549233 Tester Coder  Marcel Schilsky C12436428 Coder Designer |
| Project Title *Basic Word Processor* |
| Version Number: 4 **Change History:**   |  |  |  | | --- | --- | --- | | **Date** | **Author** | **Comments** | | 06/02/15 | Daryl | Begin plan for allocated project | | 06/03/15 | Daryl/Adam | Tkinter | | 04/04/15 | Daryl/Adam | Plan final few weeks | | 21/04/15 | Daryl/Adam | Finish | |
| Summary Our project is the basic word processor. This project has a set of minimum requirements that we must complete. These include creating, editing, amending, delete, export and open files. We must also be able to create folders and browse through our saved files in multiple folders. To make it much easier for users we must provide a spell checking service and text formatting for the user. We will also have a word count so the user can keep track of their work. Another feature that will be included is the ability to include objects into the file. These could range from tables, images or even url links to videos. To make it easier for the user all possible tools or features will be in a drop down menu. This will make the aesthetics of the processor more appealing for the user. |
| Proposed Approach 0. Overall approach  The Agile Software Development Method is being used. This creative process will help us anticipate the need for flexibility in our approach to delivering a final product. The quality of the product may be hard to maintain so we will implement automated testing every week.  1. Requirements Phase:  We did background reading on the technical concepts required. We familiarized ourselves with the tools to be used (i.e Python, Tkinter). We identified sources of information on creating text editors. We identified the key features that a user might need. We prepared and evaluated several prototypes.  2. Design Phase:  The design methodology we have chosen is the Agile Development method. Every week we will write a section of code and will then test it rigorously as is the way with the Agile Development system. We will then plan how we will proceed with next week’s code by drawing a rough idea of how it should look and function on paper. We will also use flow charts to see how the next section will fit in with our overall design and requirements. The risk with this form of design is that it will consume a lot of time that could be spent coding or writing important documents. See Gantt chart for time frame.  3. Implementation Phase:  The programming language we will be using is python. We have decided on python as we all have some knowledge of this language. We will be using Tkinter for our graphic representation of this project. we will be developing this for desktop/laptop use not mobile. A possible risk could be that Tkinter does not allow some of our required features. Refer to gantt chart provided.  4. Testing Phase:  We decided on the agile development method. In this method testing is performed after a feature has been completed. if it passes we will move on to the next feature. Problems with this form of testing are that more time will be spent on testing meaning we have less time for coding. Refer to Gantt chart provided. |
| Deliverables  |  |  |  |  | | --- | --- | --- | --- | | Code | Name | Priority | Description | | 1 | *Text Editor Widget GUI* | *Base* | *Create the initial aesthetic framework for the project. Write some code for a GUI with a text box and spaces for* | | 2 | Text file viewer | *Stretch* | Ability to open and view different file types e.g .pdf, .txt, .docx | | 3 | Full Project | Final | Completed Project | |
| Technical Requirements *Requires Python 3.4.3. Runs on Windows, Linux. Keyboard and Mouse.* |

## Related Documents

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | Document Title | Author(s) | Description | | *Test plan + results results* | Stephen | Document describing our test cases and the following results | | *Design document* | Daryl | Document outlining design plan for project. Includes use case diagrams, prototypes etc. | | *User manual* | All | Short user manual detailing how to use the program | | Presentation | All | Final presentation | | Project Logs | Adam | Weekly logs of the project’s progress | |  |  |  | |

## Project Plan

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Week 1:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Find Team Members | High | Daryl | Contact all team members | | 1 | Choose preferred projects | High | All | Choose 3 preferred projects to be  allocated | | 1 | Team Name | Low | All | Choose team name | |
| **Week 2:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Setup Communication | High | Daryl | Create Google Drive folder,  Facebook team chat | | 1 | Create Presentation | High | All | Make presentation for preferred  Projects. | | 1 | Choose programming languages | Medium | All | Decide which programming  Languages to use for project | |
| **Week 3:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Create Project Plan | High | All | Make decisions on design features  Of our project | | 2 | Choose programming languages | High | All | Decide on using python vs php/html | | 1 | Create Design Doc | High | All | Allocate tasks to each team  Member to complete design doc | |
| **Week 4:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Create presentation | High | All | Make presentation defending our  plan for developing project | | 1 | Research python | Medium | All | Research features and APIs that  May be useful in developing project | |  |  |  |  |  | |
| **Week 5:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Begin coding | High | All | Start coding basic elements of a  Word Processor | | 2 | Research | Medium | All | Further research potential features | |  |  |  |  |  | |
| **Week 6:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 2 | Coding | High | All | Start implementing Tkinter widgets | | 1 | Open file feature | Medium | Marcel | Add function to open files | | 1 | Save file | Medium | All | Add function to save files | |
| **Week 7:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 3 | Coding | High | All | Continue coding | | 1 | Find | Medium | Marcel | Implement find word feature | | 1 | Replace | Medium | All | Implement replace word feature | |
| **Week 8:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 3 | Coding | High | All | Continue refining code | | 1 | Font | Medium | All | Change font style feature | | 1 | Colour | Low | Adam | Change font colour feature | |
| **Week 9:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 4 | Coding | High | All | Continue refining code | | 1 | Spell Check | Medium | All | Implement spell check feature | | 2 | Font style/colour | Medium | All | Continue work on font styles | |
| **Week 10:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 5 | Coding | High | All | Continue refining code | | 2 | Spell Check | Medium | All | Continue implementing spell check | | 1 | Word Count | Medium | Daryl | Add word count feature | |
| **Week 11:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 6 | Coding | High | All | Continue refining code | | 3 | Spell Check | Medium | All | Continue implementing spell check | | 1 | Save Prompt | Medium | Marcel | Add feature to ask user to save  before exiting | |
| **Week 12:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 7 | Coding | High | All | Continue refining code | | 2 | Word Count | Medium | All | Fix word count feature | | 1 | Drop Down Menu | Medium | All | Add drop down menu feature |   **Week 13:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 8 | Coding | High | All | Continue refining code | | 2 | Word Count | Medium | All | Fix word count feature | | 2 | Drop Down Menu | Medium | All | Continue work on drop down menu  feature | |

