

Requirements and Analysis Document for Proton Text

Version: 1.1

Date: August 12, 2017

This version overrides all previous versions.

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1 Introduction

1.1 Purpose of application

The goal of this project is to create a text editor for IT-students that can be used for taking notes on lectures. Several features have been planned for the editor, i.e markdown syntax and exporting to pdf, to mention only a few.

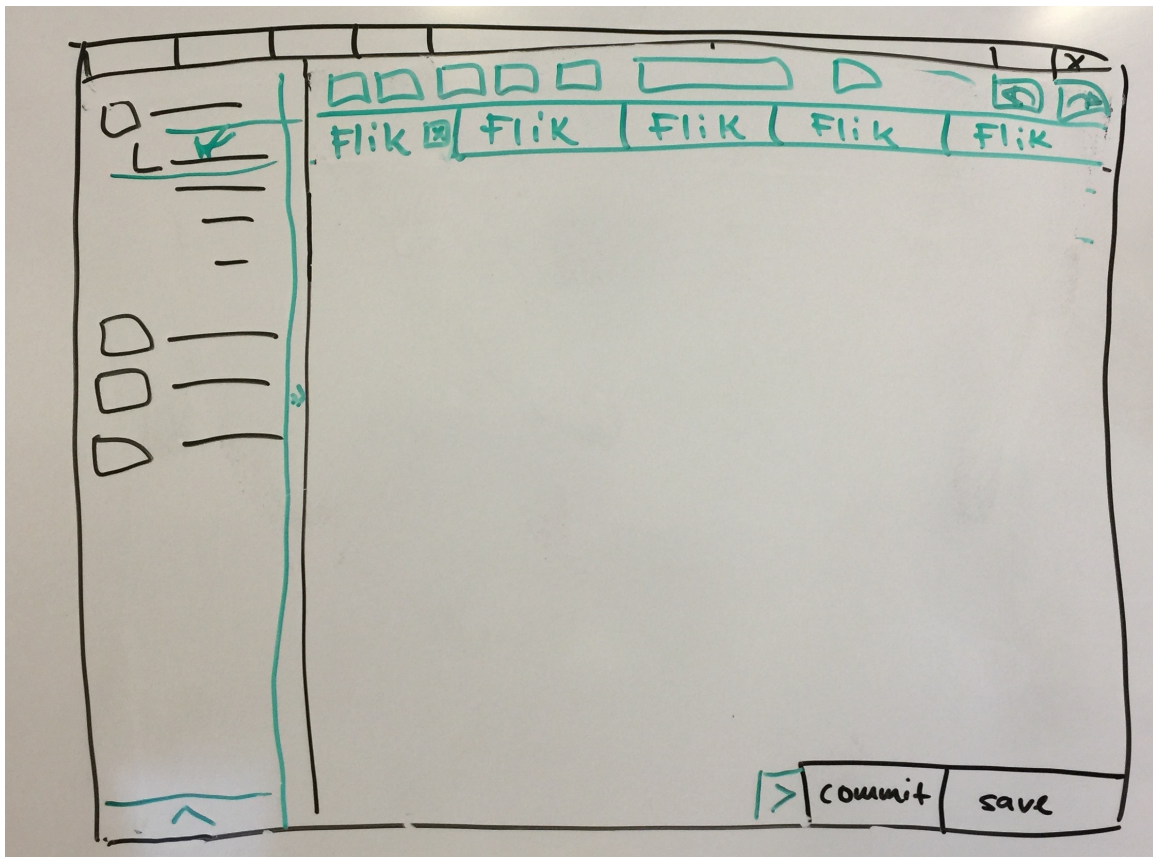
1.2 General characteristics of application

The application is a text editor created for desktop (OSX, Windows and Linux). It has a "save"-function, as well as an "open document"-function. It also has a number of ways to format the text, to make it easier to structure one's notes and texts.

2 Requirements

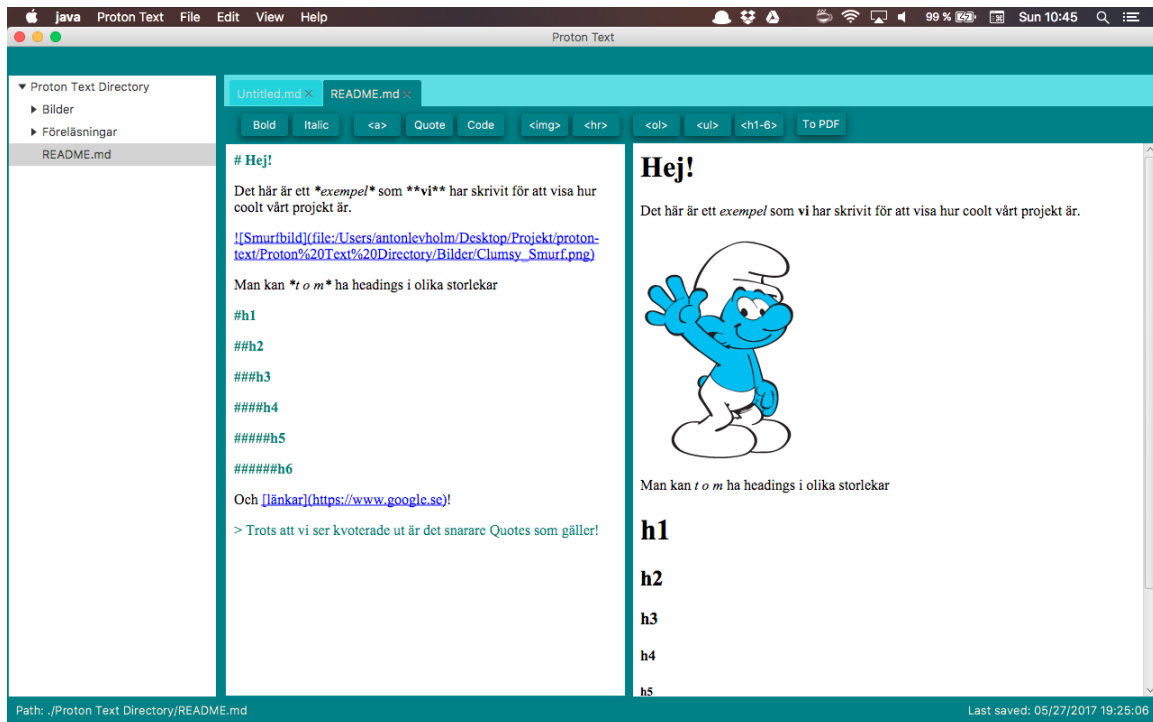
A Model, View and Controller-system is the main foundation of this application. For such a system it is required that the model does not get any information directly from the control or view.

2.1 User Interface



The intentional goal was to create a simple and clean text editor that is easy to use. There should be a menubar at the top, and a toolbar underneath to make it possible to do things like save, open and change the style of the text. On the left is a file tree to make it possible to navigate through the files and folders. On the right is the window where you edit the text. It is important to have these things because it follows the standard for a text editor and the user is expecting them to be there.

For the HTML it would be nice if it was possible to switch between two views, either the plain text or the HTML. Above the editor window there are tabs to make it easier to navigate between files. At the bottom right corner there is a button for save and one button to commit to github. This is to make it easy to save as you are taking lecture notes. Integrating github in the application was a fun idea to do if there is time over, just because the application is aimed towards it-students. The user should also be able to change the look of the application to their liking, like for example show or hide file tree.



The resulting GUI is inspired by the text editor Atom but has a more simple and flat design. It has a meny bar for funtionalities such as saving files, creating new documents etc. There is also a file tree to the left to navigate through the files and folders in the current directory. Every tab has two views; an editor where the user writes text and a view to preview the translated markdown syntax. At the top of every tab there is also a toolbar for inserting common markdown syntax in the editor.

2.2 Functional requirements

The user should be able to:

- Write text in a document
- Create documents
- Open documents
- Save documents
- Format the text to their liking

- Resize the editor window.
- Navigate between documents with tabs
- Use shortcut commands inside the application
- Navigate between documents and folders with the help of a filetree

2.3 Non-functional requirements

2.3.1 Usability

The application should be easy to use and understand. It should follow the standards of previous text editors, as to not confuse experienced users. Any keyboard-shortcuts should also follow the standards.

2.3.2 Reliability

The application should warn an user if they try to close an unsaved document or try to delete a file/folder.

2.3.3 Performance

The text that the user writes should appear in the document when they write it; there should not be any noticable delay of the appearing of the text.

2.3.4 Testability

The application will be tested to see that it correctly opens and saves documents, as well as make sure that the typed text is written out correctly in the document. All the implemented features will be tested as well, to make sure that they work as promised.

2.3.5 Supportability

The application is set to run on all standard desktop operating systems, i.e. Linux, OSX and Windows.

2.3.6 Implementation

The application will run using Java Environment (JRE) that needs to be installed on the host. The application will need to be built through terminal or a Java IDE before it can run.

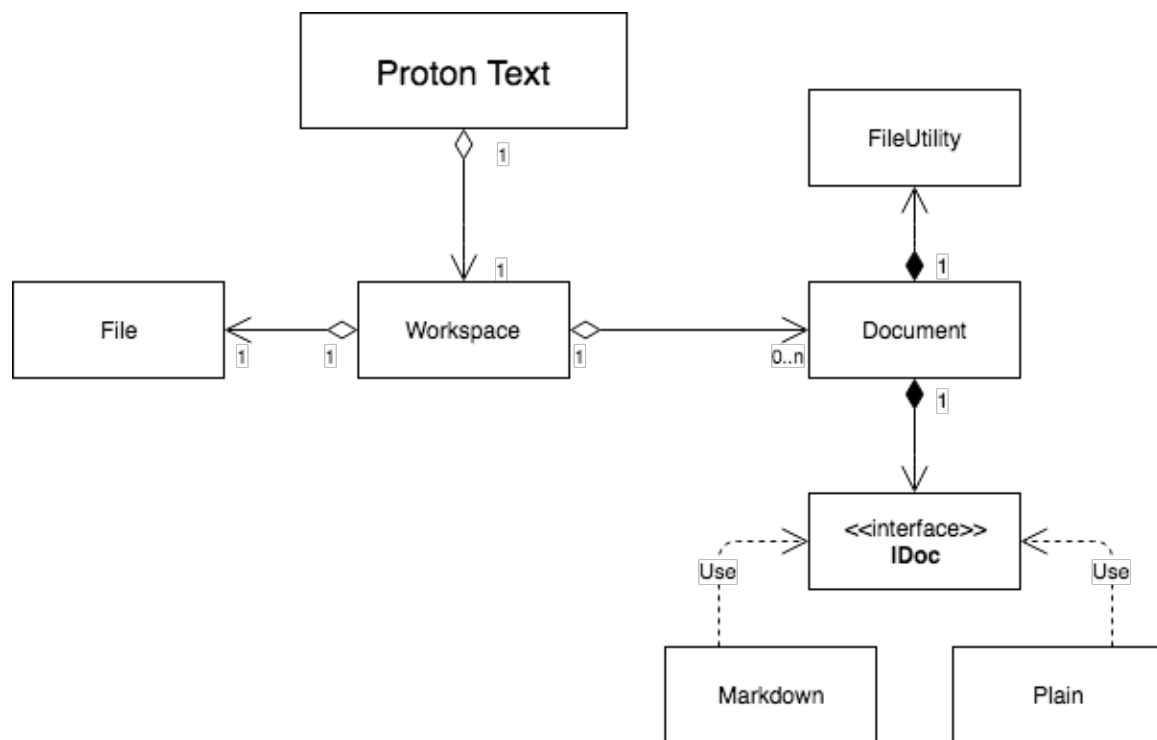
3.1 Priority list

- High
 - 001, UC: Start application
 - 002, UC: Exit application
 - 011, UC: Write text
 - 003, UC: Open file
 - 007, UC: Create document
 - 008, UC: Create file
 - 004, UC: Save file
 - 012, UC: Insert Markdown syntax
 - 018, UC: Change tab
 - 023, UC: Close a tab
 - 023, UC: Close the current tab
- Medium
 - 005, UC: Save file as
 - 016, UC: Change file name
 - 009, UC: Delete file
 - 006, UC: Create folder
 - 010, UC: Delete folder
 - 015, UC: Change directory
 - 020, UC: Change size on application
 - 021, UC: Change size on different views
 - 019, UC: Show or hide file tree
 - 013, UC: Click Markdown buttons
- Low
 - 017, UC: Change folder name
 - 014, UC: Export as PDF
 - 024, UC: Close all open tabs

3.2 Use case listing

See appendix.

4 Domain model



Class responsibilities

4.0.1 Document

Document's responsibilities include handling every tab's property and handling the text.

4.0.2 File

Java's own file class.

4.0.3 FileUtility

Extends Java's own file class, and adds more functionality to a file.

4.0.4 IDoc

An interface with methods, where the method shared by different types of documents but not the implementation.

4.0.5 Markdown

A type of document where the text is checked for markdown-syntax and formatted accordingly.

4.0.6 Plain

A type of document where the text is not checked for anything and is not formatted at all.

4.0.7 Workspace

Keeps track of all open documents and the current directory and also adds/removes documents.

Use cases

Proton Text

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001, UC: Start application

Summary: The application is started

Priority: High

Extends: None

Includes: None

Participators: The user

Normal flow of events

	Actor	System
1	Starts the application	
3		Starts the application main window with an empty document open

002, UC: Exit application

Summary: The application is exited

Priority: High

Extends: none

Includes: 001, UC: Start application

Participators: The user

Normal flow of events

	Actor	System
1	Clicks on the X-button in the window.	
2		Exits the application

Alternative flow of events 1

	Actor	System
1	Clicks on "Proton Text" in the menubar.	
2		A dropdown menu shows up under "Proton Text".
3	Clicks on "Close" in the dropdown menu.	
4		Popup window appears with the text "Are you sure you want to quit Proton Text?"
5	Clicks on "Yes" in the popup window.	
6		Exits application.

Alternative flow of events 1.1

	Actor	System
1	Clicks on “Proton Text” in the menubar.	
2		A dropdown menu is displayed under “Proton Text”.
3	Clicks on “Close” in the dropdown menu.	
4		Popup window is displayed with the text “Are you sure you want to quit Proton Text?”
5	Clicks on “No” in the popup window.	
6		Popup window closes. Application does not exit.

Alternative flow of events 2

	Actor	System
1	Presses shortcut command for exiting application (Mac: Cmd + Q, Windows/Linux:)	
2		Popup window is displayed with the text “Are you sure you want to quit Proton Text?”
3	Clicks on “Yes” in the popup window.	
4		Exits application.

Alternative flow of events 2.1

	Actor	System
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1	Presses shortcut command for exiting application (Mac: Cmd + Q, Windows/Linux: Meta + Q)	
2		Popup window is displayed with the text "Are you sure you want to quit Proton Text?"
3	Clicks on "No" in the popup window.	
4		Popup window closes. Application does not exit.

003, UC: Open file

Summary: The user opens a file

Priority: High

Extends: none

Includes: 007, UC: Create document

Participators: The user

Normal flow of events

	Actor	System
1	Clicks on “File” in the menubar.	
2		A dropdown menu is displayed under “File”
3	Clicks on “Open...” in the dropdown menu.	
4		A file manager is opened.
5	Double-clicks on a file.	
6		File manager closes.
7		File is not open in an existing tab. The selected file is opened in a new tab in the application.
8		The file is selected.
9		Highlights markdown syntax in document.
10		Updates preview window.

Alternative flow of events 1

	Actor	System
1	Clicks on “File” in the menubar.	
2		A dropdown menu is displayed under “File”
3	Clicks on “Open...” in the dropdown menu.	
4		A file manager is opened.
5	Double-clicks on a file.	
6		File manager closes.
7		File is open in an existing tab. The file in the existing tab is selected.
8		Updates preview window.

Alternate flow of events 2

	Actor	System
1	Clicks on “File” in the menubar.	
2		A dropdown menu is displayed under “File”
3	Clicks on “Open...” in the dropdown menu.	
4		A file manager is opened.
5	Clicks once on a file.	
6		File is selected.
7	Clicks on the button “Open” in the file manager.	
8		File manager closes.

		File is not open in an existing tab. The selected file is opened in a new tab in the application.
9		The file is selected.
10		Highlights markdown syntax in document.
11		Updates preview window.

Alternate flow of events 2.1

	Actor	System
1	Clicks on “File” in the menubar.	
2		A dropdown menu is displayed under “File”
3	Clicks on “Open...” in the dropdown menu.	
4		A file manager is opened.
5	Clicks once on a file.	
6		File is selected.
7	Clicks on the button “Open” in the file manager.	
8		File manager closes.
9		File is open in an existing tab. The file in the existing tab is selected.
10		Updates preview window.

Alternate flow of events 3

	Actor	System
1	Presses shortcut command for opening a file (Mac: Cmd + O, Windows/Linux: Meta + O)	
2		A file manager is opened.
3	Double-clicks on a file.	
4		File manager closes.
5		The file is not open in an existing tab. The selected file is opened in a new tab in the application.
6		File is selected.
7		Highlights markdown syntax in document.
8		Updates preview window.

Alternate flow of events 3.1

	Actor	System
1	Presses shortcut command for opening a file (Mac: Cmd + O, Windows/Linux: Meta + O)	
2		A file manager is opened.
3	Double-clicks on a file.	
4		File manager closes.
5		The selected file is open in an existing tab. The file in the existing tab is selected.
7		Highlights markdown syntax in document.
8		Updates preview window.

Alternate flow of events 3.2

	Actor	System
1	Presses shortcut command for opening a file (Mac: Cmd + O, Windows/Linux: Meta + O)	
2		A file manager is opened.
3	Clicks once on a file.	
4		File is selected.
5	Clicks on the button “Open” in the file manager.	
6		File manager closes.
7		File is open in an existing tab. The file in the existing tab is selected.
8		Updates preview window.

Alternate flow of events 4

	Actor	System
1	Clicks on a file in the filetree	
2		The selected file is not open in an existing tab. The file is opened in a new tab in the application.
3		File is selected.
4		Highlights markdown syntax in document.
5		Updates preview window.

Alternate flow of events 4.1

	Actor	System
1	Clicks on a file in the filetree	
2		The selected file is already open in an existing tab. The existing tab is selected.
3		Updates preview window.

004, UC: Save file

Summary: The user saves a file

Priority: high

Extends: none

Includes: 008, UC: Create file

Participators: The user

Normal flow of events

	Actor	System
1	Clicks on "File" in the menubar.	
		Dropdown menu is displayed.
2	Clicks on "Save" in dropdown menu.	
3		File has been saved before. Saves file.
4		Updates application footer.
5		File tree is updated

Alternate flow of events 1

	Actor	System
1	Clicks on "File" in the menubar.	
		Dropdown menu is displayed.
2	Clicks on "Save" in dropdown menu.	
3		File has not been saved before. Popup window appears and asks user for filepath.

4	Enters a filepath. Clicks on “submit” button.	
5		Popup window closes. Creates new file. Saves file.
6		Updates application footer.
7		File tree is updated

Alternate flow of events 1.1

	Actor	System
1	Clicks on “File” in the menubar.	
		Dropdown menu is displayed.
2	Clicks on “Save” in dropdown menu.	
3		File has not been saved before. Popup window is displayed and asks user for filepath.
4	Enters a filepath. Presses Enter.	
5		Popup window closes. Creates new file. File is saved.
6		Updates application footer.
7		File tree is updated.

Alternate flow of events 2

	Actor	System
1	Presses shortcut command for saving file (Mac: Cmd + S, Windows/Linux: Meta + S).	
2		File has been saved before. Saves file.
3		Updates application footer.

Alternate flow of events 2.1

	Actor	System
1	Presses shortcut command for saving file (Mac: Cmd + S, Windows/Linux: Meta + S).	
2		File has not been saved before. Popup window is displayed and asks user for filepath.
3	Enters a filepath. Presses Enter.	
4		Popup window closes. Creates new file. File is saved.
5		Updates application footer.
6		File tree is updated,

Alternate flow of events 2.2

	Actor	System
1	Presses shortcut command for saving file (Mac: Cmd + S, Windows/Linux: Meta + S).	
2		File has not been saved before. Popup window is displayed and asks user for filepath.
3	Enters a filepath. Clicks on button "Submit" in popup window.	
4		Popup window closes. Creates new file. File is saved.
5		Updates application footer.
6		File tree is updated.

005, UC: Save file as

Summary: The user saves a file with a new name.

Priority: Medium

Extends: 004, UC: Save file

Includes: none

Participators: The user

Normal flow of events

	Actor	System
1	Clicks on "File" in the menubar.	
		Dropdown menu is displayed.
2	Clicks on "Save as..." in dropdown menu.	
3		Popup window is displayed and asks user for filepath.
4	Enters a filepath. Presses Enter.	
5		Popup window closes. Creates new file. Saves file.
6		Updates application footer.
7		File tree is updated.

Alternate flow of events 1

	Actor	System
1	Clicks on "File" in the menubar.	
		Dropdown menu is displayed.
2	Clicks on "Save as..." in dropdown menu.	
3		Popup window is displayed and asks user for filepath.
4	Enters a filepath. Clicks on "submit" button.	
5		Popup window closes. Creates new file. Saves file.
6		Updates application footer.
7		File tree is updated

006, UC: Create folder

Summary: The user creates a folder in the file tree

Priority: Medium

Extends: none.

Includes: 001, UC: Start application

Participators: The user

Normal flow of events

	Actor	System
1	Right click on a folder in file tree	
2		Dropdown menu is displayed.
3	Clicks on "New folder" in dropdown menu.	
4		Dropdown menu closes. Creates a new folder with default name in the folder that was clicked on. New folder is placed at the end.
5		File tree is updated.

007, UC: Create document

Summary: The user creates a new file

Priority: High

Extends: none

Includes: 001, UC: Start application

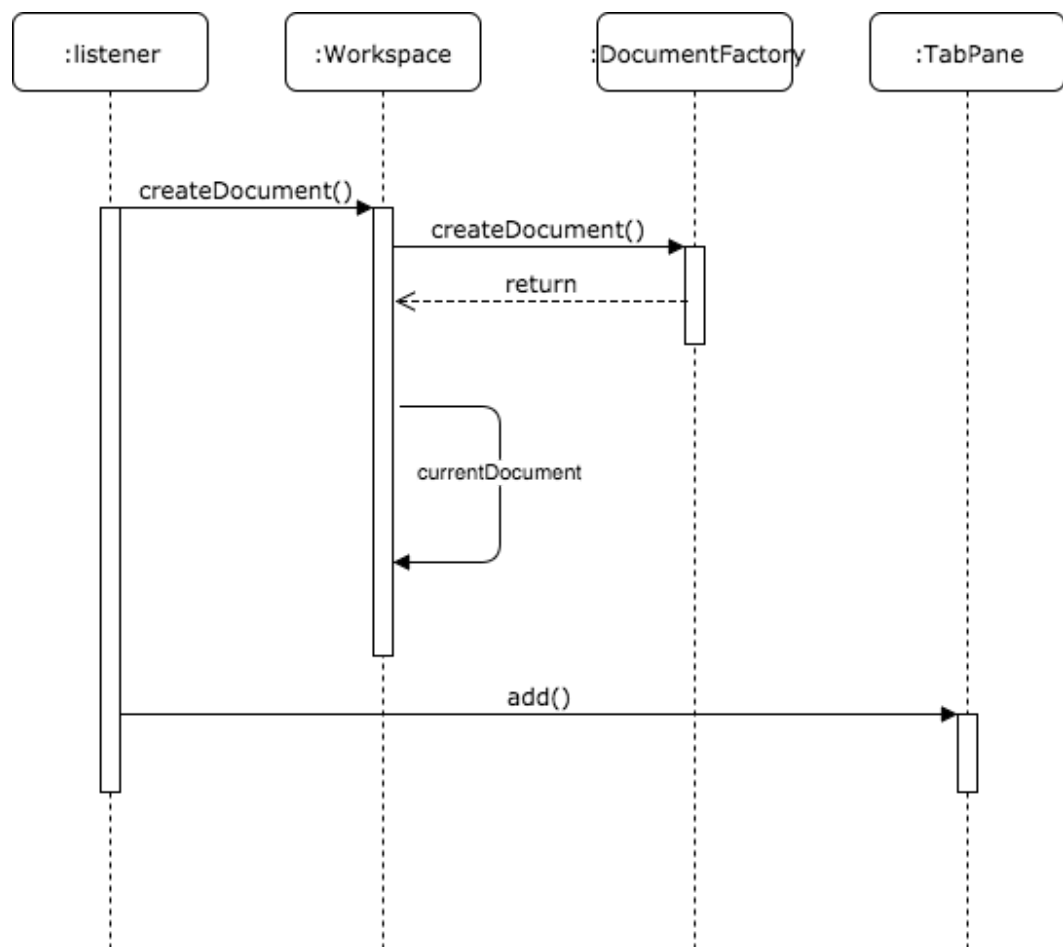
Participators: The user

Normal flow of events

	Actor	System
1	Clicks on "File" in menubar.	
2		Dropdown menu is displayed.
3	Clicks on "New" in dropdown menu.	
4		Creates a new document and opens it in a new tab

Alternate flow of events 1

	Actor	System
1	Presses the shortcut command for creating a new file (Mac: Cmd + N, Windows/Linux: Meta + N).	
2		Creates a new document and opens it in a new tab.



008, UC: Create file

Summary: The user creates a file through the file tree.

Priority: High

Extends: none

Includes: 001, UC: Start application

Participators: The user

Normal flow of events

	Actor	System
1	Right click on a folder in file tree	
2		Displays a dropdown menu
3	Clicks on "New file" in dropdown menu.	
4		Creates a new file with default name in the folder that was clicked on. New file is placed at the end.
5		File tree is updated.

009, UC: Delete file

Summary: The user deletes a file through the file tree.

Priority: Medium

Extends: none

Includes: 001, UC: Start application

Participators: The user

Normal flow of events

	Actor	System
1	Right clicks on a file in file tree menu	
2		Dropdown menu appears.
3	Clicks on "Delete" in dropdown menu	
4		Dropdown menu closes. Confirmation box opens.
5	Clicks Yes button.	
6		Confirmation box closes. The selected file is deleted. File is removed from filetree.
7		File tree is updated.

Alternative flow of events 1

	Actor	System
1	Right clicks on a file in file tree menu	
2		Dropdown menu appears.
3	Clicks on "Delete" in dropdown menu	

4		Dropdown menu closes. Confirmation box opens.
5	Clicks No-button	
6		Confirmations box closes.
7		Nothing happens.

010, UC: Delete folder

Summary: The user deletes a folder

Priority: Medium

Extends: none

Includes: 001, UC: Start application

Participators: The user

Normal flow of events

	Actor	System
1	Right clicks on a folder in file tree menu	
2		Dropdown menu is displayed.
3	Clicks on "Delete" in dropdown menu	
4		Dropdown menu closes. Opens confirmation box.
5	Clicks on "Yes"-button	
6		Confirmation box closes. The selected folder is deleted. Folder is removed from filetree.
7		File tree is updated.

Alternative flow of events 1

	Actor	System
1	Right clicks on a folder in file tree menu	

2		Dropdown menu is displayed.
3	Clicks on "Delete" in dropdown menu	
4		Dropdown menu closes. Opens confirmation box.
5	Clicks on "No"-button	
6		Confirmation box closes.
7		Nothing happens.

011, UC: Write text

Summary: The user writes in a document.

Priority: High

Extends: none

Includes: 001, UC: Start application, 007, UC: Create document

Participators: The user

Normal flow of events

The user writes some text in the document.

	Actor	System
1	Cursor is in document. Presses a symbol key	
2		Key is written in the document.
3		Preview window is updated.

Alternate flow of events 1

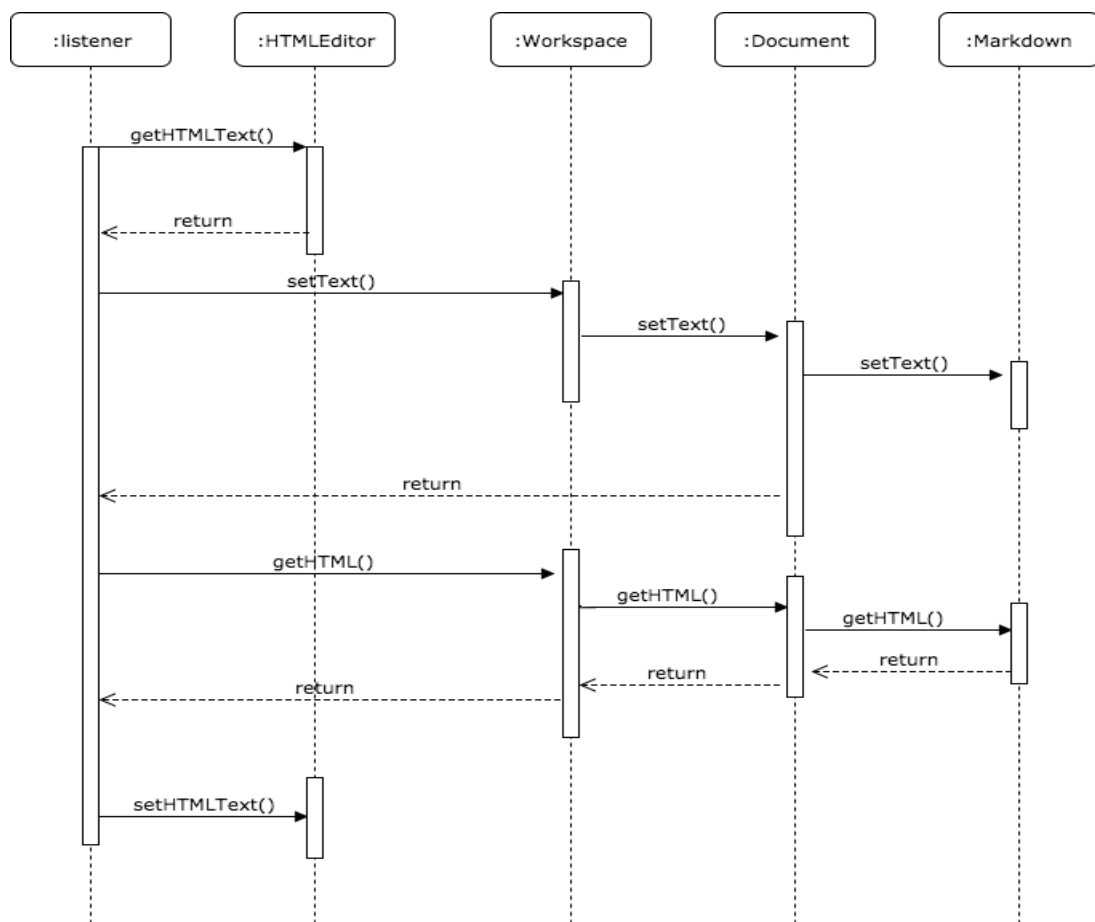
The user deletes some text in the document.

	Actor	System
1	Cursor is in document. Presses backspace.	
2		Removes character before cursor.
3		Preview window is updated.

Alternate flow of events 2

The user inserts a new line into the document.

	Actor	System
1	Cursor is in document. Presses enter	
2		Adds a new row in document at cursor position. Cursor is moved to the beginning of new row.
3		Preview window is updated.



012, UC: Insert markdown syntax

Summary: The user writes markdown syntax in the document.

Priority: high

Extends: 011, UC: Write text

Includes: none

Participators: The user

Normal flow of events

	Actor	System
1	Writes markdown syntax in document.	
2		Checks document for syntax.
3		Syntax found.
4		Preview window updated.

013, UC: Click markdown buttons

Summary: The user clicks a markdown button in the toolbar in order to create text templates for markdown.

Priority: Low

Extends: 012, UC: Insert markdown syntax

Includes: none

Participators: The user

Normal flow of events

	Actor	System
1	Clicks a button in toolbar	
2		Checks what button is pressed.
3		Adds markdown syntax at cursor position.

014, UC: Export as PDF

Summary: Convert translated Markdown to a PDF file

Priority: Low

Extends: none

Includes: 008, UC: Create file

Participators: The user

Normal flow of events

	Actor	System
1	Clicks on "To PDF" in toolbar.	
2		A popup window is displayed and asks user for a file path
3	Writes file path and clicks 'Submit'	
4		Converts translated markdown into a new PDF file.

Alternative flow of events 1

	Actor	System
1	Clicks on "To PDF" in toolbar.	
2		A popup window is displayed and asks user for a file path
3	Writes file path and presses Enter.	
4		Converts translated markdown into a new PDF file.

015, UC: Change directory

Summary: Changes current directory

Priority: Medium

Extends: none

Includes: 001, UC: Start application

Participators: The user

Normal flow of events

	Actor	System
1	Clicks on “File” in menubar.	
2		A dropdown menu is displayed.
3	Clicks on “Change directory...” in dropdown menu.	
4		A file manager is opened.
5	Double-clicks on a folder.	
6		File manager closes. The selected folder is set as current directory.
7		Filetree is updated.

Alternative flow of events 1

	Actor	System
1	Clicks on “File” in menubar.	
2		A dropdown menu is displayed.
3	Clicks on “Change directory...” in dropdown menu.	

4		A file manager is opened.
5	Clicks on a folder. Presses submit-button in file manager.	
6		File manager closes. The selected folder is set as current directory.
7		Filetree is updated.

016, UC: Change file name

Summary: Change the name of a file

Priority: Medium

Extends: none

Includes: 001, UC: Start application

Participators: The user

Normal flow of events

	Actor	System
1	Clicks on "File" in menubar.	
2		A dropdown menu is displayed.
3	Clicks on "Rename" in dropdown menu.	
4		A popup window is displayed and asks the user for a filepath.
5	Enters a filepath. Presses Enter.	
6		Popup window closes. The filepath is updated.
7		File tree is updated.

Alternate flow of events 1

Change name from the filetree.

	Actor	System
1	Double-clicks on a file in the file tree	
2		Input field of the filename is activated.

3	Enters new name. Presses Enter.	
4		Filename is updated.
5		Filetree is updated.

017, UC: Change folder name

Summary: Change the name of a folder

Priority: Low

Extends: none

Includes: 001, UC: Start application

Participators: The user

Normal flow of events

Change name from the filetree.

	Actor	System
1	Double-clicks on a folder in the file tree	
2		Input field of the folder name is activated.
3	Enters new name. Presses Enter.	
4		Folder name is updated.
5		File tree is updated.

018, UC: Change tab

Summary: The user changes selected tab

Priority: high

Extends: none

Includes: 007, UC: Create document

Participators: The user

Normal flow of events

	Actor	System
1	Clicks on a tab that's not selected	
2		Selects the clicked tab.

Alternate flow of events 1

	Actor	System
1	Clicks on "View" in menubar.	
2		A dropdown menu is displayed.
3	Clicks on "Next tab" in dropdown menu.	
4		Dropdown menu is closed.
5		There is no tab to the right.
6		Nothing happens.

Alternate flow of events 1.1

	Actor	System
1	Clicks on "View" in menubar.	
2		A dropdown menu is displayed.
3	Clicks on "Next tab" in dropdown menu.	
4		Dropdown menu is closed.
5		There is a tab to the right.
6		The tab to the right is selected.

Alternate flow of events 2

	Actor	System
1	Clicks on "View" in menubar.	
2		A dropdown menu is displayed.
3	Clicks on "Previous tab" in dropdown menu.	
4		Dropdown menu is closed.
5		There is no tab to the left.
6		Nothing happens.

Alternate flow of events 2.1

	Actor	System
1	Clicks on "View" in menubar.	
2		A dropdown menu is displayed.
3	Clicks on "Previous tab" in dropdown	

	menu.	
4		Dropdown menu is closed.
5		There is a tab to the left.
6		The tab to the left is selected.

Alternate flow of events 3

	Actor	System
1	Presses shortcut command for “Next tab” (Mac: Cmd + L, Windows/Linux: Meta + L)	
2		There is no tab to the right.
3		Nothing happens.

Alternate flow of events 3.1

	Actor	System
1	Presses shortcut command for “Next tab” (Mac: Cmd + L, Windows/Linux: Meta + L)	
2		There is a tab to the right.
3		The tab to the right is selected.

Alternate flow of events 4

	Actor	System
1	Presses shortcut command for “Previous tab” (Mac: Cmd + K, Windows/Linux: Meta + L)	
2		There is no tab to the left.

3		Nothing happens.
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Alternate flow of events 3.1

	Actor	System
1	Presses shortcut command for "Previous tab" (Mac: Cmd + K, Windows/Linux: Meta + L)	
2		There is a tab to the left.
3		The tab to the left is selected.

019, UC: Show or hide file tree

Summary: Displays or hides file tree to make use of space

Priority: Low

Extends: none

Includes: 001, UC: Start application

Participators: The user

Normal flow of events

	Actor	System
1	Clicks on "View" on the menubar.	
2		A dropdown menu displays.
3	Clicks on "Show/hide filetree" in the dropdown menu	
4		Filetree is currently displayed.
5		Filetree is hidden.
6		View is updated.

Alternative flow of events 1

	Actor	System
1	Clicks on "View" on the menubar.	
2		A dropdown menu displays.
3	Clicks on "Show/hide filetree" in the dropdown menu	
4		Filetree is currently hidden.

5		Filetree is displayed.
6		View is updated.

Alternative flow of events 2

	Actor	System
1	Presses shortcut command for show/hide filetree (Mac: Cmd + H, Windows/Linux: Meta + H)	
2		Filetree is currently displayed.
3		Filetree is hidden.
4		View is updated.

Alternative flow of events 2.1

	Actor	System
1	Presses shortcut command for show/hide filetree (Mac: Cmd + H, Windows/Linux: Meta + H)	
2		Filetree is currently hidden.
3		Filetree is displayed.
4		View is updated.

020, UC: Change size on application

Summary: To change the windows size in order to manage space

Priority: Medium

Extends: none

Includes: 001, UC: Start application

Participators: The user

Normal flow of events

	Actor	System
1	Drags the windows edges	
2		Change size accordingly

021, UC: Change size on different views

Summary: To change the size a certain field (File tree-view, HTML-view and Web-view) takes in the application

Priority: Medium

Extends: 020, UC: Change size on application

Includes: none

Participators: The user

Normal flow of events

	Actor	System
1	Drags the views edges	
2		Change size accordingly.
3		Other views sizes are updated accordingly.

022, UC: Close a tab

Summary: The user closes a tab that is not the current tab

Priority: High

Extends: none

Includes: 007, UC: Create document

Participators: The user

Normal flow of events

	Actor	System
1	Presses the "X"-button on a tab	
2		The tab is closed.
3		The other tabs placements are updated.

023, UC: Close the current tab

Summary: The user closes the current tab

Priority: High

Extends: 022, UC: Close a tab

Includes: none

Participators: The user

Normal flow of events

	Actor	System
1	Presses the "X"-button on the current tab	
2		There is another tab to the left.
3		The current tab is closed.
4		The tab to the left is now current tab.
5		The other tabs placements are updated.
6		HTML-view and web-view is updated to display the content of the current tab.

Alternative flow of events 1

	Actor	System
1	Presses the "X"-button on the current tab	
2		There is no tab to the left. There is another tab to the right.
3		The current tab is closed.

4		The tab to the right is now current tab.
5		The other tabs placements are updated.
6		HTML-view and web-view is updated to display the content of the current tab.

Alternative flow of events 1.1

	Actor	System
1	Presses the “X”-button on the current tab	
2		There are no other tabs.
3		The current tab is closed.
6		The view is updated.

Alternative flow of events 2

	Actor	System
1	Clicks on “View” in the menubar.	
2		A dropdown menu is displayed.
3	Clicks on “Close current tab” in dropdown menu.	
4		The dropdown menu closes.
5		There is another tab to the left.
6		The current tab is closed.
5		The tab to the left is now current tab.
6		The other tabs placements are updated.
7		HTML-view and web-view is updated to display the content of the current tab.

Alternative flow of events 2.1

	Actor	System
1	Clicks on "View" in the menubar.	
2		A dropdown menu is displayed.
3	Clicks on "Close current tab" in dropdown menu.	
4		The dropdown menu closes.
5		There is no tab to the left. There is another tab to the right.
6		The current tab is closed.
5		The tab to the right is now current tab.
6		The other tabs placements are updated.
7		HTML-view and web-view is updated to display the content of the current tab.

Alternative flow of events 2.2

	Actor	System
1	Clicks on "View" in the menubar.	
2		A dropdown menu is displayed.
3	Clicks on "Close current tab" in dropdown menu.	
4		The dropdown menu closes.
5		There are no other tabs
6		The current tab is closed.
7		The view is updated.

Alternative flow of events 3

	Actor	System
1	Presses the shortcut command for closing the current tab (Mac: Cmd + W, Windows/Linux: Meta + W)	
2		There is another tab to the left.
3		The current tab is closed.
4		The tab to the left is now current tab.
5		The other tabs placements are updated.
6		HTML-view and web-view is updated to display the content of the current tab.

Alternative flow of events 3.1

	Actor	System
1	Presses the shortcut command for closing the current tab (Mac: Cmd + W, Windows/Linux: Meta + W)	
2		There is no tab to the left. There is another tab to the right.
3		The current tab is closed.
4		The tab to the right is now current tab.
5		The other tabs placements are updated.
6		HTML-view and web-view is updated to display the content of the current tab.

Alternative flow of events 3.2

	Actor	System
1	Presses the shortcut command for closing the current tab (Mac: Cmd + W, Windows/Linux: Meta + W)	
2		There are no other tabs.
3		The current tab is closed.
6		The view is updated.

024, UC: Close all open tab

Summary: The user closes all open tabs

Priority: high

Extends: 022, UC: Close a tab

Includes: none

Participators: The user

Normal flow of events

	Actor	System
1	Clicks on "View" in menubar.	
2		A dropdown menu displays.
3	Clicks on "Close all open tabs" in the dropdown menu.	
4		The dropdown menu closes.
5		All tabs are closed.
6		View is updated.

Alternative flow of events 1

	Actor	System
1	Presses shortcut command for closing all open tabs (Mac: Shift + Cmd + W, Windows/Linux: Shift + Meta + W)	
2		All tabs are closed.
3		View is updated.