Software Requirements Specification

Madlib Editor

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Version 1
February 9th, 2014

Table of Contents

1. Introduction

This section will briefly introduce all the information that will be in included in this document.

1.1 Purpose

The purpose of this document is to describe and specify all the requirements for the "Madlibs Editor" software.

1.2 Definitions, acronyms, and abbreviations

Term	Definition
User	Anyone who uses the Madlibs Editor
Token	A defined place in the madlibs document, where a word is to be given by the person playing the madlib.
Madlibs	Mad Libs is a phrasal template word game where one player prompts another for a list of words to substitute for blanks in a story, before reading the – often comical or nonsensical – story aloud
Application	In this document, any reference to the "application" are referring to the Madlib Editor.
Menu bar	The area at the top of the application window. Includes such options as "Help", "File", "Edit" and etc.
Toolbar	The area at the top of the application window right below the menu bar. Includes such options as "Create Token" and "save .txt".
Text Editor Panel	The area of the application in which the madlibs text is to be manipulated.
Group Editor Panel	The area of the application where groups are to be created, removed, and customized.
Token Editor Panel	The area of the application where Tokens are to be customized.
.txt	Refers to a text file.

1.3 Scope of software

The "Madlibs Editor" is a web based software application that allows users to create their very own custom madlibs. While using the Madlibs Editor software the user must be able to upload any file with a .txt file extension, and be able to customize the text file to create tokens. Users should be able to define groups of words to be defined as the same token. As well as be able to save a madlibs text file. User should be able to choose a "generate generic madlibs" option that will search the document for certains words likely to be a suitable token automatically then report these findings to the user, and allow them to accept, edit, or decline the generated madlib. Users should be able to create groups of token, and edit or remove these groups.
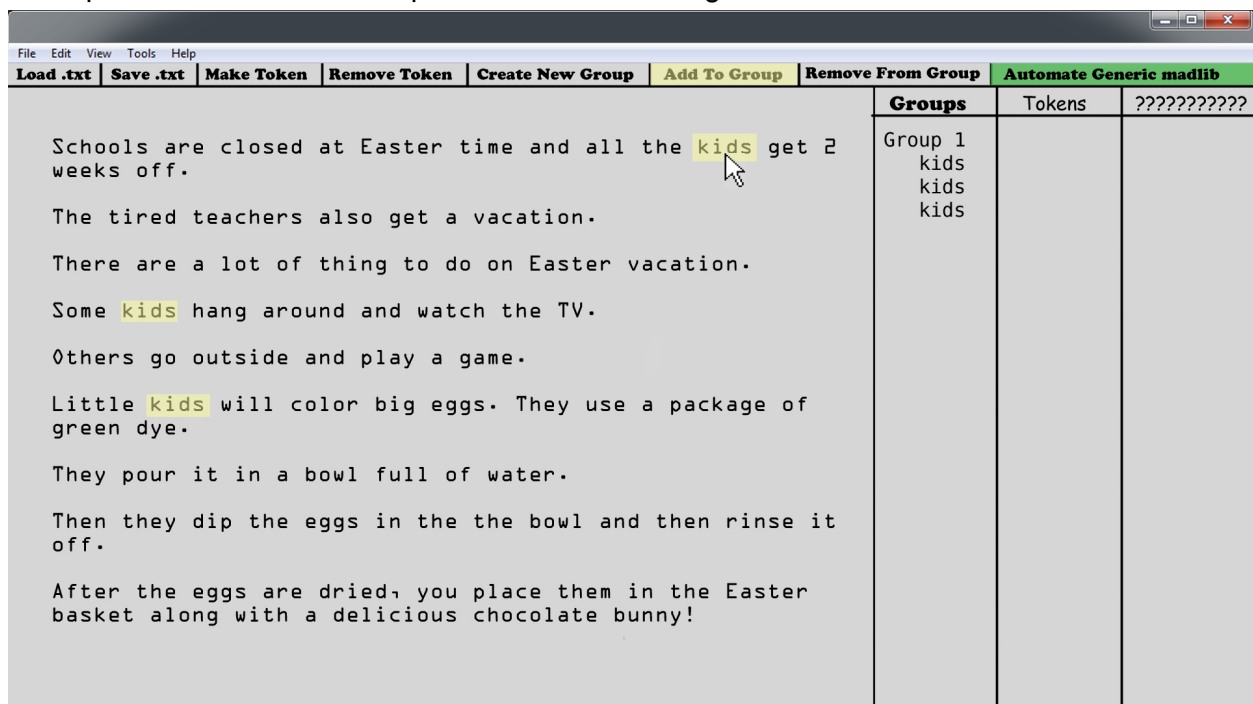
1.4 References

Source 1: Mr. Scott Strenstchz provided all software requirements for the Madlib Editor.
Source 2:
http://www.cse.chalmers.se/~feldt/courses/reqeng/examples/srs_example_2010_group2.pdf
Provided an example template for this SRS document.

1.5 Overview

The remainder of this document explains the user interface layout and all of the key features of the Madlibs Editor software. The following section is organized by the 5 main areas (or Panels) in the user interface. These are the Menu bar, toolbar, text editor panel, group panel, and the token panel. Below is an example user interface design.

2. Interface Layout

2.1 User interfaces
This section describes the 5 basic areas of the user interface and the features within those areas.

2.2 Menu bar
The menu bar features many items that are required in the madlib editing software. Things like interacting with files, editing the page, and using other tools to effect the page. The menu bar and its items are meant to cover the overall tools of the program, and can be found through other means, ie copying text could be in the edit menu bar and also by hitting ctrl + c.

2.2.1 File Menu
- New - Creates a new empty madlib page, without this how can the user truly start anything.
- Open - Gets an already saved madlib either from the user's computer or the website's server.
- Save/Save as - Stores the madlib into either the user's computer or the website's server.
- Exit - Returns the user back to the main page of the website. (If there is a possible offline version will exit the program).

2.2.2 Edit
- Undo - The last action done is cancelled and whatever it did is resorted back to before it was done.
- Redo - The action that was cancelled is done again.
- Cut - Removes a piece of text and copies it to the clipboard.
- Copy - Copies a piece of text to the clipboard.
- Paste - places the copied text to the madlib.
- Delete - removes the highlighted text.

2.2.3 Tools Menu
- Find tokens - Runs through the madlib and looks for nouns, verbs, etc and suggests to the user to make them tokens.
- Make tokens - Turns the highlighted word into a token.
- Remove tokens - Turns the highlighted token into plain text.
- Group tokens - All tokens highlighted will be grouped into one group.
- Run madlib - Lets the user play the madlib and enter what they want as if they actually had one.
- More features tbd.

2.2.4 Help Menu
- Documentation - Lets the user read what each button does and watch tutorials.
- About - Lets the user know what version they are using, company info, and legal stuff.

The Menu Bar is meant to hold as much abilities for the user to use as possible. It has many features that can be used in other areas, and that is meant to be so that there can be multiple ways to do what needs to be done. Try to keep the menu bar as concise as possible.

2.3 – Toolbar

The toolbar, located directly below the menu bar, will provide functionality within a madlib file. It will allow the user such actions as saving or loading a .txt file for a madlib, creating and erasing tokens, and manipulating token groups.

- Load .txt - The load .txt button will open a secondary window to allow the user to select a .txt file from a location outside the madlib creator.
- Save .txt - The save .txt button will open a secondary window to allow the user to save the current .txt file to a location outside the madlib creator.
- Make Token - The Make Token button will mark the currently selected text as a token.
- Remove Token - The Remove Token button will remove the token designation from the currently-selected token.
- Create New Group - The Create New Group button will create a new token group with a default name. This new group will include the currently-selected token(s), if any.
- Add To Group - The Add To Group button will add the currently selected token(s) to the selected token group.
- Remove From Group - The Remove From Group button will remove the currently selected token(s) from the selected token group.
- Automate Generic Madlib - The Automate Generic Madlib button will create a generic Madlib from the current .txt file by systematically selecting and grouping recurring words as tokens. Each group will contain one recurring word.

The toolbar allows easy access to the program's most commonly used functions, including saving and loading .txt files and basic token manipulation. These functions should allow the user to easily and quickly manipulate tokens, token groups, and even entire .txt files.

2.4 Text Editor Panel

This area will discuss what features are required to be available to edit any of the text contained in the madlib editing software. This includes basic text editing functions, declaring and removing tokens, declaring predefined tokens, allowing the user to define tokens, and right click options that should also be available to the user to make editing easier.

2.4.1 Basic Text Editing

There will need to be basic text editing functions like some of the ones in Microsoft Word. (e.g. fonts, font size, bold, italic, underline, and justification formatting.)   This should also have the ability to automatically highlight or change color of suggested words when a document is started or imported. For example if its a predefined token a verb changes to blue, a noun changes to green.

2.4.2 Token Editing

The user should have the ability to highlight any word and declare it to be a token, add it to a group of tokens, remove it as a token entirely, declare it to be a predefined token, or remove it from a token group.

There should also be a way for the user to define their own tokens for which they can provide special characters to declare any word with those characters as a token. These tokens should be able to be treated and edited in the same manner as any of the predefined tokens are.

2.4.3 Right Click Editing Options

- Highlight tokens- this highlights all tokens of the same type and should highlight every occurrence of that same word without highlighting any words that have a similar prefix or suffix.
- Find- a search engine that allows you to locate tokens of a specific type or group. This should also allow you to find the next token of that type or group
- Group tokens- a function that will group all currently selected words/tokens.
- Remove tokens- which allows you to remove the selected word/token from the group it is currently in and has an option remove it entirely as a token.
- Format- gives all basic formatting and text editing options.
- Save as- allows you to specify what format to save.
- Auto-generate - finds and suggests predefined tokens and replaces the words
- Spell Check - checks for spelling errors

The text editor panels allow you to make any necessary modifications to the madlib document. These included basic text editing functions such as those found in Microsoft Word, justification formats, and fonts style and size. Token editing should be easy to do within the text document itself and should allow you to add, remove, group tokens, as well as declare predefined and user defined tokens. Right click options should be available to help speed up the process of changing anything contained within the document such as spelling, formatting, and handling of tokens.

2.5 Group Panel

The group panel is an area of the application used for managing groups of tokens.

2.5.1 Overview of the group Panel

A "group" in the context of this document refers to a collection of tokens. Groups can be created, modified and deleted at will by the user. The Group panel is a part of the user interface that houses all the information about the groups a user is currently working with.

2.5.2 Creating groups

Users can create groups by selecting the "create group" button. Once selected, a new group will be shown in the group panel. Every group is created with a default name such as "group 1" although a group name can be changed by the user, by double clicking the name text.

2.5.3 Adding tokens to groups

Once a word is declared as a token, is can be added to a group. To do this the user must simply click that token in the text editor panel, the token will be highlighted once selected, and then the user must select the "add token to group" button.

2.5.4 Removing tokens from groups

Tokens can be removed from groups by selecting the desired token in the group panel, and then selecting the "remove token from group" option.

2.5.5 Deleting groups

Groups can deleted by the user by selecting the group he wishes to delete, and then selecting the "remove group" button.

2.6 Token Panel

The token panel shows all tokens created by the user in a two paned list.

2.6.1 Original Word List

On the left side of the token panel is the complete list of words that have been changed into tokens. An example might be the name Yorick from William Shakespeare's play *Hamlet*.

2.6.2 Token List

On the right side of the token panel is the complete list of tokens next to the word they have replaced. And example token might be "animal" as a token next to the word dog, or "verb" as a token next to the word jump.

3. Conclusion

The basic "Madlibs Editor" software requirements are:

- It must be a web application.
- Users can:
  - Create their own custom madlibs.
  - Upload an existing text file to be used as a madlib template.
  - Save a madlib file.
  - Define words in the text to be tokens and restore tokens back to their original state.
  - Create, modify and delete groupings of tokens.
  - Automatically generate a "suggested" madlib.