SE 3XA3: Requirements Document
MacSidenotes

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October 11, 2016

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Table 1: **Revision History**

Date	Version	Author(s)	Notes
Oct 6th, 2016	0.5	Josh	Section 2 Complete

This document describes the requirements for .... The template for the Software Requirements Specification (SRS) is a subset of the Volere template (**?**). If you make further modifications to the template, you should explicity state what modifications were made.

1 Project Drivers

1.1 The Purpose of the Project

1.2 The Stakeholders

1.2.1 The Client

1.2.2 The Customers

1.2.3 Other Stakeholders

1.3 Mandated Constraints

1.4 Naming Conventions and Terminology

1.5 Relevant Facts and Assumptions

User characteristics should go under assumptions.

2 Functional Requirements

2.1 The Scope of the Work and the Product

Currently in the Chrome Web Store, there exists a few extensions that function similarly to MacSidenotes. However, each either lacks a feature of this product, or suffers from bugs and is poorly reviewed.

MacSidenotes' combination of simplicity, dependable functionality and ability to link back to web pages from the Note List set it apart from the current offerings.

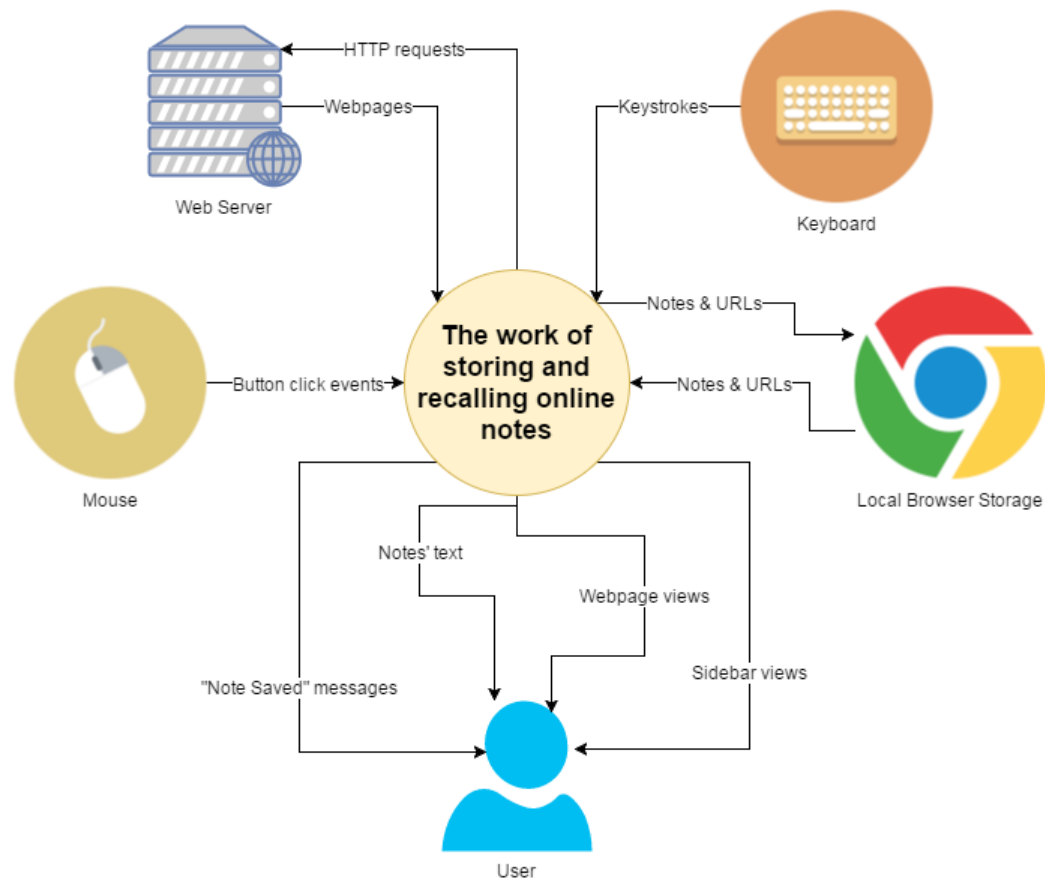### 2.1.1 The Context of the Work

Figure 1: Work Context Diagram

2.1.2 Work Partitioning

Table 2: **Business Event List**

Event #	Event Name	Input and Output	Summary of BUC
1.	User clicks extension icon	Button click event (in) Sidebar view (out)	Extension sidebar appears when icon is clicked.
2.	User types in sidebar	Keystrokes (in) Text in sidebar (out)	Note is displayed as it is being entered.
3.	User clicks save icon	Button click event (in) User's note (in) Webpage URL (in) Save message (out) Note & URL (out)	Save user's note in local browser storage.
4.	User clicks Note List button	Button click event (in) Note List view (out)	Show list of previous notes.
5.	User clicks note in Note List	Button click event (in) HTTP request (out) Webpage response (in) Webpage view (out)	Send user to URL attached to previously saved note.

2.1.3 Individual Product Use Cases

1. User wishes to create a note for a Wikipedia article (or any webpage) they are viewing, so they click the MacSidenotes icon in their chrome browser. The notes sidebar appears on the right side of the screen

2. User begins to type their note, "Section 7 is relevant for thesis paper" and it appears in the sidebar.

3. User clicks the save icon, and their note is saved in local browser storage along with the URL to that article.

4. User wishes to view all previous notes, so they click the MacSidenotes icon followed by the Notes List icon. A list of notes the user has recorded in the past appear, alongside their respective source URLs.

5. User wishes to recall a specific previous note, so they click on that note in the Notes List. Chrome then takes them to the URL associated with that note, displaying the note in the sidebar as it appeared when they saved it.

2.2 Functional Requirements

Requirement #: F.1   Requirement Type: 9   Event/Use case #: 1

Description: The product must reveal a typing window "sidebar" on the right hand side of the chrome window when the extension icon is clicked.

Rationale: Users need a location to type their notes.

Originator: Josh Mitchell

Fit Criterion: The window shall appear in the correct location within 1 second of the user clicking on the icon.

Customer Satisfaction: 5   **Customer Dissatisfaction:** 5
Priority: Very High   **Conflicts:** None

Supporting Materials: None
History: Created October 6th, 2016

Requirement #: F.2   Requirement Type: 9   Event/Use case #: 2

Description: The product must allow the user to type their notes into the sidebar.

Rationale: Typing is a fast and simple way to record notes.

Originator: Josh Mitchell

Fit Criterion: The user's exact keyboard input shall appear in the sidebar within 0.1 seconds of the key being pressed.

    Customer Satisfaction: 5 **Customer Dissatisfaction:** 5
    Priority: Very High   **Conflicts:** None

Supporting Materials: None
History: Created October 6th, 2016

    Requirement #: F.3   Requirement Type: 9   Event/Use case #: 3

Description: Upon the Save Note button being clicked, the product must save the user's note in local browser storage alongside the URL of the web page they were viewing that the time.

Rationale: Saving notes for future reference greatly increases the usefulness of the extension.

Originator: Josh Mitchell

Fit Criterion: After pressing save, Chrome's local storage should append the exact content of the user's note and its associated URL to the list of saved notes. This operation will take under 5 seconds to complete.

    Customer Satisfaction: 4 **Customer Dissatisfaction:** 4
    Priority: High   **Conflicts:** None

Supporting Materials: None
History: Created October 6th, 2016

    Requirement #: F.4   Requirement Type: 9   Event/Use case #: 4

Description: The product must allow the user to see all previously saved notes by clicking the Notes List button.

Rationale: Viewing previous notes greatly increases the extension's usefulness

Originator: Josh Mitchell

Fit Criterion: The list of notes shall appear in the correct location within 1 second of the user clicking on the icon.

Customer Satisfaction: 4   **Customer Dissatisfaction:** 4
Priority: High   **Conflicts:** None

Supporting Materials: None
History: Created October 6th, 2016

Requirement #: F.5   Requirement Type: 9   Event/Use case #: 5

Description: If the user clicks on a previous note, the product must force Chrome to request the webpage associated with that note's URL.

Rationale: The ability to revisit noted webpages greatly increases the extension's usefulness

Originator: Josh Mitchell

Fit Criterion: The HTTP request must be sent within 1 second of the user clicking the note.

Customer Satisfaction: 3   **Customer Dissatisfaction:** 3
Priority: Moderate   **Conflicts:** None

Supporting Materials: None
History: Created October 6th, 2016

3   Non-functional Requirements

3.1   Look and Feel Requirements

Requirement #: NF.1   Requirement Type: 10   Event/Use case #:

Description: The product should have an attractive html interface.

Rationale: The product must be aesthetically pleasing and easy to use to benefit the end-users

Originator: Matthew Shortt

Fit Criterion: Stakeholder satisfaction regarding the appearance

Customer Satisfaction: 5   **Customer Dissatisfaction:** 5
Priority: High   **Conflicts:** None

Supporting Materials: None
History: Created October 5th, 2016

3.2   Usability and Humanity Requirements

3.3   Performance Requirements

3.4   Operational and Environmental Requirements

3.5   Maintainability and Support Requirements

3.6   Security Requirements

3.7   Cultural Requirements

3.8   Legal Requirements

3.9   Health and Safety Requirements

This section is not in the original Volere template, but health and safety are issues that should be considered for every engineering project.

4   Project Issues

4.1   Open Issues

It is not yet known if our inexperience with JavaScript will be a significant hurdle in the development of this project.

4.2   Off-the-Shelf Solutions

4.2.1   Ready-Made Products

Sticky Notes - Just popped up!
Memo Notepad
Google Keep - notes and lists

4.2.2   Reusable Components

jQuery
jQuery UI

4.2.3   Products That Can Be Copied

sidenotes
Note: this is the existing extension that this project is based on. It is currently in a non-functioning state, although some insight into extension design can be gleaned from it.

4.3   New Problems

4.3.1   Effects on the Current Environment

Due to the siloed implementation of Chrome extensions, MacSidenotes should have no adverse effects on the functionality of other extensions.

4.3.2   Effects on the Installed Systems

MacSidenotes will appear in the extension bar alongside any other extensions the user has installed. Other than making the address bar shorter (by the length of the MacSidenotes icon), it should co-exist peacefully with the rest of the user's Chrome ecosystem.

4.3.3   Potential User Problems

MacSidenotes should not adversely affect the user's interaction with other Chrome extensions.

4.3.4   Limitations in the Anticipated Implementation Environment That May Inhibit the New Product

If the user's machine barely meets Chrome's minimum system specifications, adding MacSidenotes (or any other extension for that matter) may cause slowdown or crashes. This is unlikely, however, given the lightweight nature of MacSidenotes and the system specifications of most semi-modern computers.

4.4   Tasks

MacSidenotes Gantt Chart .gan format
MacSidenotes Gantt Chart .pdf format

4.5   Migration to the New Product

Due to the siloed nature of Chrome extensions, modifications to the existing system are not necessary for the implementation of MacSidenotes.

4.6 Risks

Table 3: **Risks**

Priority	Risk	Probability, Severity	Mitigation Plan
1	Developers' inexperience with JavaScript prevents correct/timely implementation of project	5%, Extreme	Familiarizing with some of the many relevant JavaScript tutorials found online
2	Developers' inability to meet deadlines prevents timely completion of project	5%, Extreme	Adhering to a weekly meeting schedule and discussing possible setbacks before they become overwhelming
3	Incorrect implementation of Req F.3 causes loss of user data	10%, High	Thorough and complete testing of the note saving system

4.7 Costs

Costs will be measured in time required to complete each Functional Requirement.

Table 4: **Costs**

Requirement	Time
F.1	3 Days
F.2	1 Day
F.3	3 Days
F.4	2 Days
F.5	2 Days

4.8   User Documentation and Training

4.8.1   User Documentation Requirements

Table 5: **User Documentation Requirements**

Documentation	Purpose
Chrome Web Store Overview	To describe the extension's features to potential users
How To Use Button	To introduce new users to the functionality of MacSidenotes. It lists the steps required to create, save and recall notes.

4.8.2   Training Requirements

MacSidenotes requires no training to be used.

4.9   Waiting Room

In future, notes may be able to be stored in a cloud service like Google Drive or Dropbox to be accessed from anywhere. They may also be linked to the user's Chrome account to sync across multiple devices.
These requirements are not necessary for a minimum viable product, so they will be revisited once a minimum viable product is achieved.

4.10   Ideas for Solutions

None at this time.

References

5   Appendix

This section has been added to the Volere template. This is where you can place additional information.

5.1   Symbolic Parameters

The definition of the requirements will likely call for SYMBOLIC_CONSTANTS. Their values are defined in this section for easy maintenance.