

Functional-Spec - V1

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Software Name	Your Journal		

1 Introduction

1.1 Objective

In this document you will find a functional specification for a free open-source software system that works as a personal journal. It will allow anyone with basic knowledge of computers to be able to create an account, create, update, and delete their own personal journals. This document will review the problem statement, scope, features, use cases, etc. The purpose of this document is for the team and client to refer to when creating the software. This document will hold both of us accountable for making sure the team builds what the client is asking for. As well as for the client to provide feedback or clarification on the product. This will ensure that we as the developers create what is asked of us.

1.2 References

Horstmann, Cay., "Object-Oriented Design & Patterns, 3rd edition

1.3 Acronyms, and Abbreviations

Explain all acronyms, abbreviations, and complex concepts used in this document if there is any.

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

2 Software Overview

2.1 Problem Statement

Many people enjoy the pastime of journal writing to reflect on events throughout their day and track progress towards goals. Historically, journals are important records to discover insights into civilization during that historical period. However, physical paper copies of journals can degrade over time due to damage from the elements. Additionally, available online resources for online journals often are insecure, giving unwanted users access to others' information, and have limited functionality. This software will be available as an open-source downloadable desktop application that will be free of targeted advertisements that may contain spyware. This will be a protected database that allows users to have confidence in the privacy and ready availability of their information for many years to come.

2.2 Scope

The typical users of this product would be anyone with a computer and basic knowledge of computers to sufficiently use this product.

2.3 Functional Requirements

1. The software should provide a way for new users to login for initial time with default password.
2. After successful login, user will be redirected to change password to set user defined password and security questions.
3. After initial change password is completed, user will be redirected to main page.
4. User will have option to logout from main journal page.
5. User will have option to go back to login page from change password page.
6. Returning users will have option to select reset password on returning login.
7. User will have option to go back to returning login page from change password page.
8. Returning users will have option to login with user defined password.
9. After initial change password is completed, user will be redirected to main page.
10. User will be able to create new journal from main journal page.
11. User will have option to searching for journal by title or substring of title.
12. User will have option to edit journal from main journal after searching.
13. User will have option to delete journal after searching.
14. User will have default title and date set for journal.
15. User can manually edit title on journal page.
16. User can manually edit date on journal page.
17. User can save journal page.
18. User can exit journal page without saving.
19. The user can sort journals by date
20. The software should allow a user to edit the title of a journal as well as the date
21. The software should allow a user to write as much as they choose in a journal.
22. The system must have a user-friendly interface.
23. The system must be straightforward and easy to use.

3 Use Cases (at least 3) [20 Points each]

Use Case Name	UC-01: Login (First Time)			
Goal				
User performs initial login for program with default password.				
Participating Actors				
User, System				
Glossary				
N/A				
Primary Flow of Events				
Trigger				
User launches the application for the first time and is prompted to enter their login information.				
Steps	Action	System Response		
1	User enters their password.	System recognizes text field input.		
2	User clicks on "login" button.	System checks predefined text file "Default_Password.txt" for the password, compares user entry to text file string.		
3	User waits for credentials verification.	If the password matches text file, user is redirected to change password page.		
4				
5				
Alternative Flow of Events				
Alternative Trigger				
User enters wrong login credentials				
Steps	Action	System Response		
1	User enters wrong default password.	Invalid error text appears in red stating "invalid try, please try again".		
2				
3				

Use Case Name	UC-02: Create a new Journal	
Goal	User creates new journal entry from homepage.	
Participating Actors	User, System	
Glossary	N/A	
Primary Flow of Events		
Trigger	User clicks on the "Create a new journal" button	
Steps	Action	System Response
1	User logs into account	System displays journals menu on homepage
2	User selects "new journal"	System redirects to journal page.
3	User writes journal entry	System defaults title and date.
4	User clicks save	System saves title, date, and journal information to database.
Alternative Flow of Events		
Alternative Trigger	User cancels journal creation without saving	
Steps	Action	System Response
1	User logs into account	System displays journals menu on homepage
2	User selects 'new journal' button	System redirects to journal page.
3	User writes journal entry	System defaults title and date.
4	User clicks 'return' button	System does not save information and redirects to main journal page.

Use Case Name	UC-03: Search and edit a journal entry
Goal	The user wants to access or edit an existing journal entry

Participating Actors		
User, System		
Glossary		
N/A		
Primary Flow of Events		
Trigger		
User logs in and clicks on the “Look for journal” button on the homepage		
Steps	Action	System Response
1	User clicks on the “look for journal” button	Display searchbar which also displays recent searches in a dropdown box
2	User types in a journal name or phrase in the journal contents, and hits “search”	If the user entry matches an existing journal name or a phrase in the journal contents, open the journal on the most recent edit
3	User edits the journal as required and clicks on the “save journal” button	System saves the edit and closes the journal, then displays the homepage
4		
5		

Alternative Flow of Events		
Alternative Trigger		
User enters a non-existent or incorrect title in the searchbar		
Steps	Action	System Response
1	User types non-existent title	Display message “no such journal entry exists”
2		
3		

Use Case Name	UC-04: Reset Password (Returning User)
Goal	
The user will reset their password with user defined security question and answer.	
Participating Actors	
User, System	
Glossary	
N/A	

Primary Flow of Events		
Trigger		
User is on returning login page and clicks reset password		
Steps	Action	System Response
1	User clicks 'reset password' button	User is redirected to reset password page.
2	User clicks 'show security question' button if question is forgotten.	The system loads security question and the load button disappears.
3	User enters security answer, new password, and confirms new password	System recognizes input of information.
4	User clicks 'change password' button	System verifies security answer matches user's previously defined input in text file. The system verifies that the password matches confirm password text field.
5	User waits for verification of input	User is redirected to the main password page. Text files are updated.
6		

Alternative Flow of Events		
Alternative Trigger		
User enters incorrect security answer or mismatches passwords or does not enter input in the field(s)		
Steps	Action	System Response
1	User neglects to verify data input as stated in the above trigger.	The system displays an error message to verify inputs and try again.
2		
3		

Use Case Name	UC-05: Search and Delete Journal
Goal	
User successfully deletes journal from journal collection.	
Participating Actors	
User, System	
Glossary	
N/A	
Primary Flow of Events	
Trigger	

User is on home page and searches for journal		
Steps	Action	System Response
1	User logs in.	System navigates to journal homepage.
2	User clicks search button after entering journal name or part of name in text field.	System searches for string or substring of journal name.
3	User clicks delete.	System deletes journal entry from database.
4		
5		

Alternative Flow of Events

Alternative Trigger

User searches for journal but decides not to delete.

Steps	Action	System Response
1	User clicks search button after entering journal name or part of name in text field.	System searches for string or substring of journal name.
2	User changes mind on deleting and clicks refresh.	System loads new scene of page.
3		

Use Case Name	UC-06: Login (Returning User)
Goal	
Returning user successfully logs in.	
Participating Actors	
User, System	
Glossary	
N/A	

Primary Flow of Events

Trigger

User is returning to application for the second or more time

Steps	Action	System Response
1	Returning user launches application.	System recognizes returning user.
2	User enters password into password field.	System recognizes input.

3	User clicks login button.	System verifies that user input matches user password input field. System redirects to home page.
4		
5		

Alternative Flow of Events

Alternative Trigger

User enters incorrect password or leaves field blank.

Steps	Action	System Response
1	User neglects to verify data input as stated in the above trigger.	The system displays an error message to verify input and try again.
2		
3		

Use Case Name	UC-07: Change Password (First-time Login)
Goal	
First-time user changes password.	
Participating Actors	
User, System	
Glossary	
N/A	

Primary Flow of Events

Trigger

User is on the home page and clicks 'change password' button.

Steps	Action	System Response
1	User clicks 'login' button on initial setup.	System redirects to the change password screen for first-time users.
3	User enters security question, security answer, password, and confirm password.	System recognizes input of information.
4	User clicks 'change password' confirmation button.	System checks security question and answer fields are not empty. Also checks that password and confirm password match and are not empty. System redirects to homepage.
5		

Alternative Flow of Events		
Alternative Trigger		
User doesn't enter security question, security answer, mismatches password confirmation, or fails to enter data into one or more fields.		
Steps	Action	System Response
1	User neglects to verify data input as stated in the above trigger.	The system displays an error message to verify inputs and try again.
2		
3		

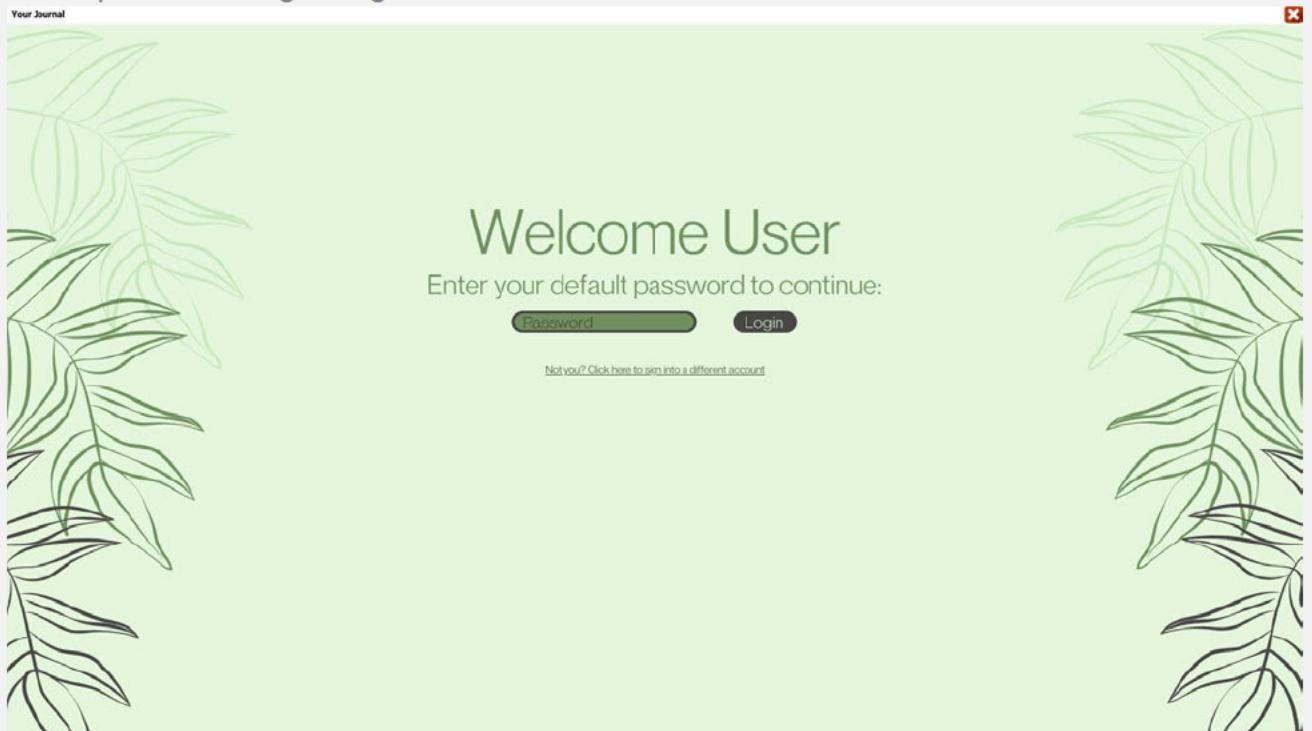
Use Case Name	UC-08: Logout from Home Page			
Goal				
User will return to returning login page.				
Participating Actors				
User, System				
Glossary				
N/A				
Primary Flow of Events				
Trigger				
User is on the home page and wishes to log out of journal system.				
Steps	Action	System Response		
1	User clicks 'log out button'	System recognizes user logout. It redirects to returning user's home page. It also sets 'LoggedIntoSystem.txt' to false, so system recognizes user has logged out.		
2				
3				
4				
5				
Alternative Flow of Events				
Alternative Trigger				
N/A				

Steps	Action	System Response
1	N/A	N/A

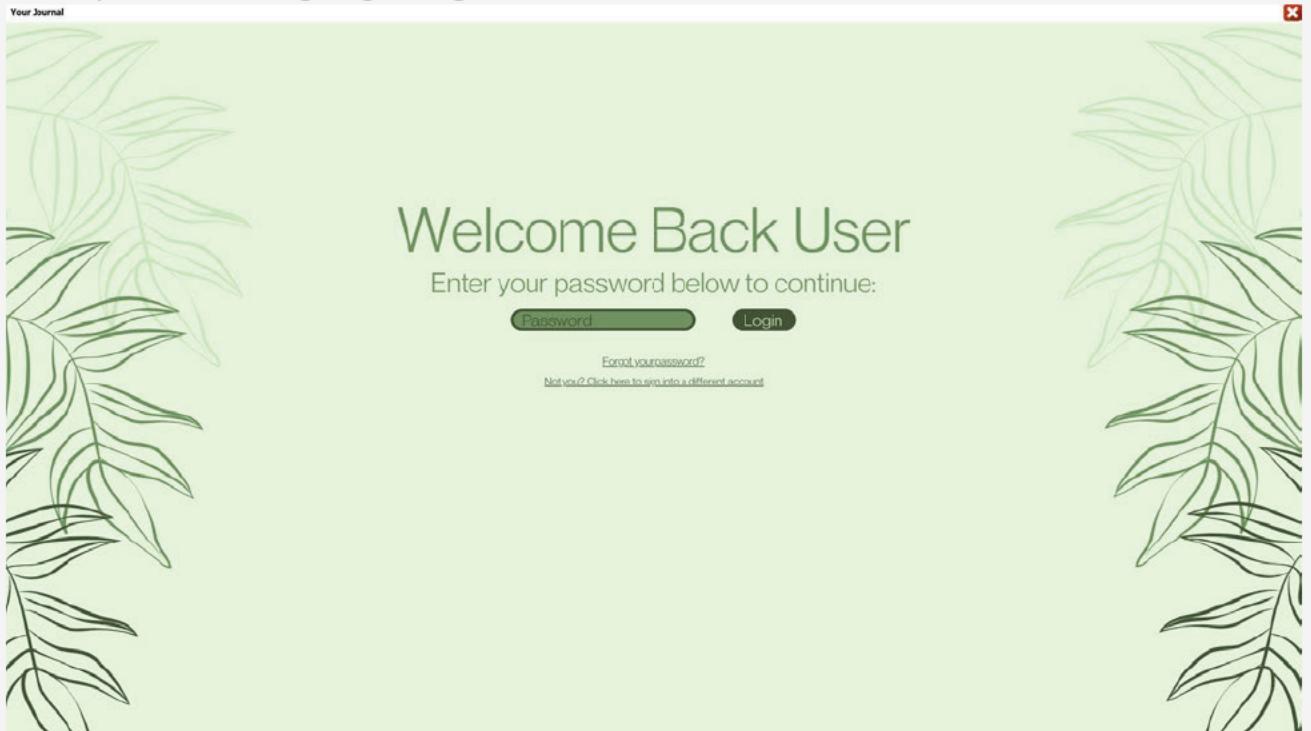
4 Mockups (at least 3) [5 Points each]

5 Mockups

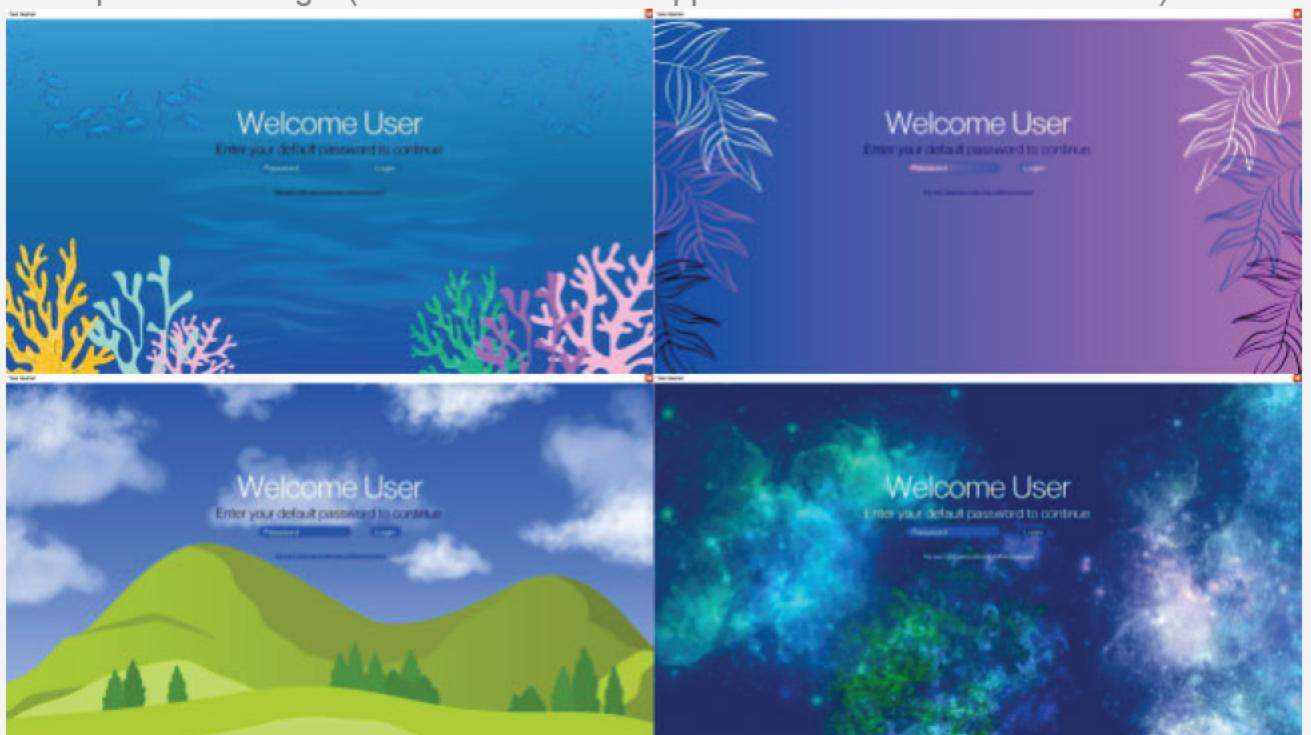
Mockup 1: Initial Login Page



Mockup 1a: Returning Login Page



Mockup 1b: Initial Login (Alternative Interface Appearance for User Customization)



Mockup 2: Change Password

Your Journal

Welcome User

Change your password below:

Current Password

Your password must be 8-15 characters and contain one special character.

New Password

Confirm New Password

Choose Security Question
Who is your favorite author?

Answer to Security Question

Confirm Changes

Mockup 3: Login Success Home Page

Mockup 4: Journal Entry Page

Your Journal

User's Journal Entry

Title

Date

Content Area:

Sample Text from Lorem Ipsum Generator https://www.ipsum.com/feed/html)

Save **Cancel**

Mockup 5: Quick Search Substring Context

Your Journal

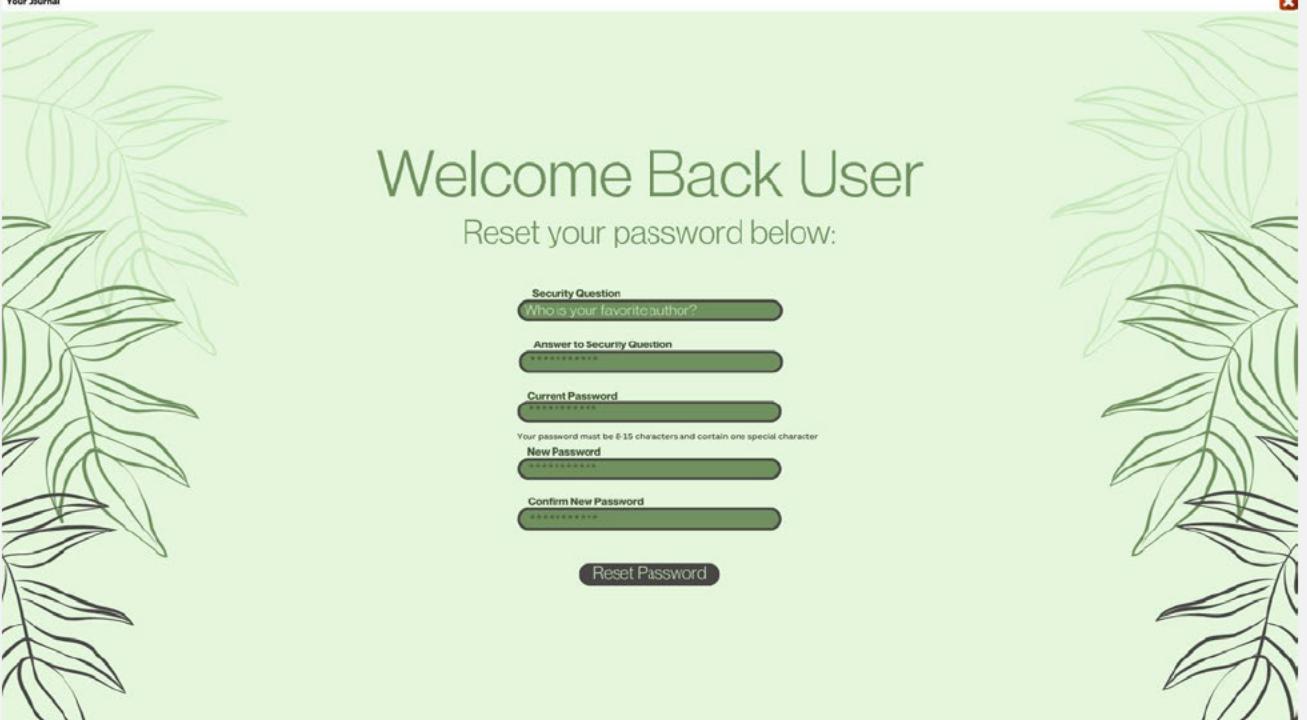
User's Journal Entries

New Entry

Quick Search

Title	Date	Time	Edit	Delete
Untitled Document 1	01/01/2023	12:00AM	<input type="button" value="Edit"/>	X
			<input type="button" value="Edit"/>	X
			<input type="button" value="Edit"/>	X
			<input type="button" value="Edit"/>	X
			<input type="button" value="Edit"/>	X
			<input type="button" value="Edit"/>	X
			<input type="button" value="Edit"/>	X
			<input type="button" value="Edit"/>	X
			<input type="button" value="Edit"/>	X
			<input type="button" value="Edit"/>	X
			<input type="button" value="Edit"/>	X

Mockup 6: Reset Password



Your Journal X

Welcome Back User

Reset your password below:

Security Question
Who is your favorite author?

Answer to Security Question

Current Password

Your password must be 8-15 characters and contain one special character

New Password

Confirm New Password

Reset Password

The form is a password reset interface. It features a header "Welcome Back User" and a sub-header "Reset your password below:". It includes fields for a security question ("Who is your favorite author?") and its answer ("*****"). There are also fields for the current password ("*****"), new password ("*****"), and confirmation of the new password ("*****"). A note specifies that the password must be 8-15 characters and contain one special character. A "Reset Password" button is at the bottom. The background has a green gradient and tropical leaf patterns.