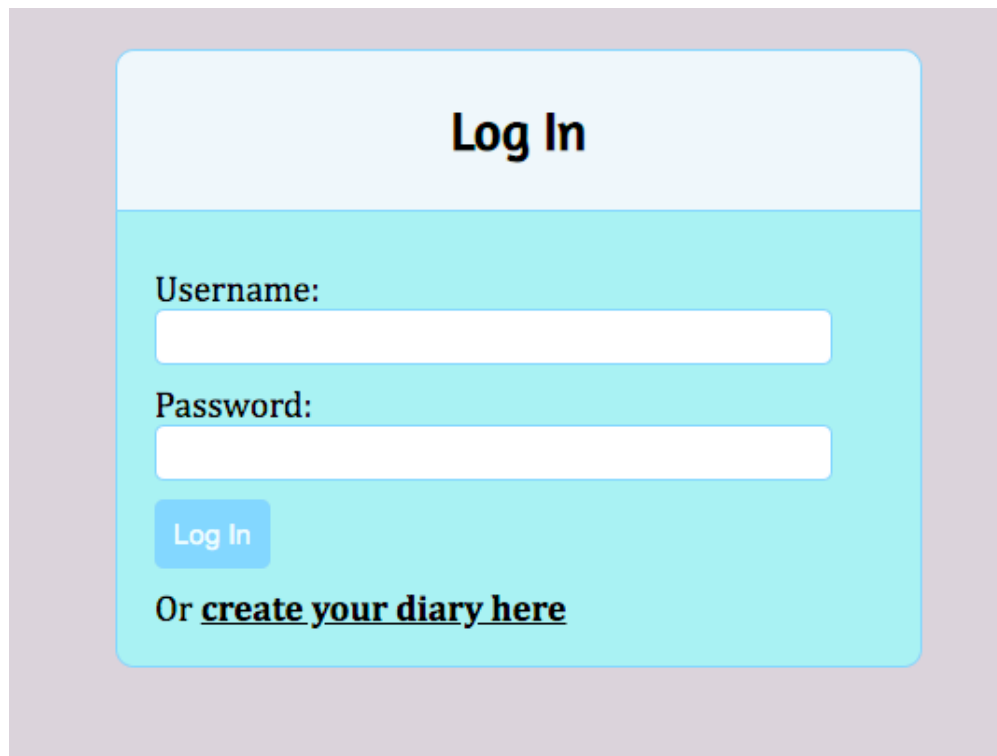


## Criterion E: Evaluation

### Evaluation of the completion of the Success Criteria:

1. After registering the user, the application will be able to ensure privacy using username and password

A screenshot of a web application's login interface. It features a light blue header with the text "Log In". Below this is a light blue form area containing two input fields: "Username:" and "Password:". A blue button labeled "Log In" is positioned below the password field. At the bottom of the form, there is a link that reads "Or create your diary here".

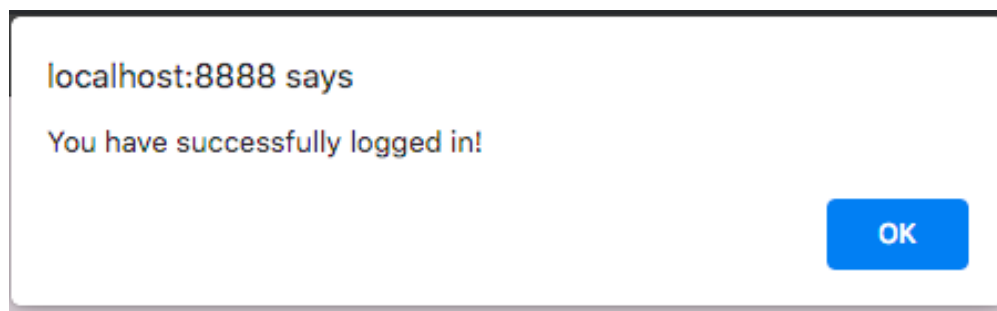
**Log In**

Username:

Password:

Log In

Or create your diary here



2. Provide the client a user-friendly interface with easy usability and a section explaining how to use the web application

### Entries (Search and Sort)

You can search for the entries you have created by entering the title of the entry in the search field titled "Search for title". You can as well search for the expenses by entering the time and/or date in the search field "Search for time/date"

You can as well sort the headings of the table by clicking on it. For example, if you want to access the title of the entries in an ascending order, you can just click on the heading "Title".

Search for months..

Search for year..

Type in a month

3. The application will have 3 sections; entries, planner and expenses. The user will be able to; - Add, delete, edit/update the required information

Home

Entries

Planner

Expenses

Go Back

Add entry

Title:

Body:

Paragraph

B

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“

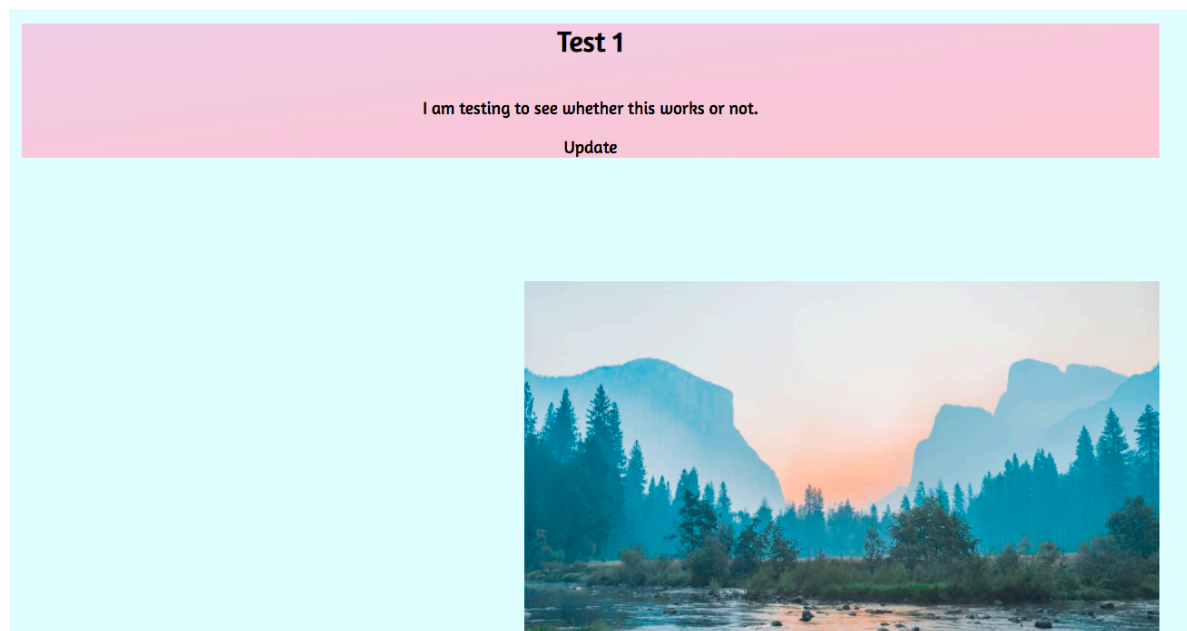
Image:

Choose File

No file chosen

Create Entry

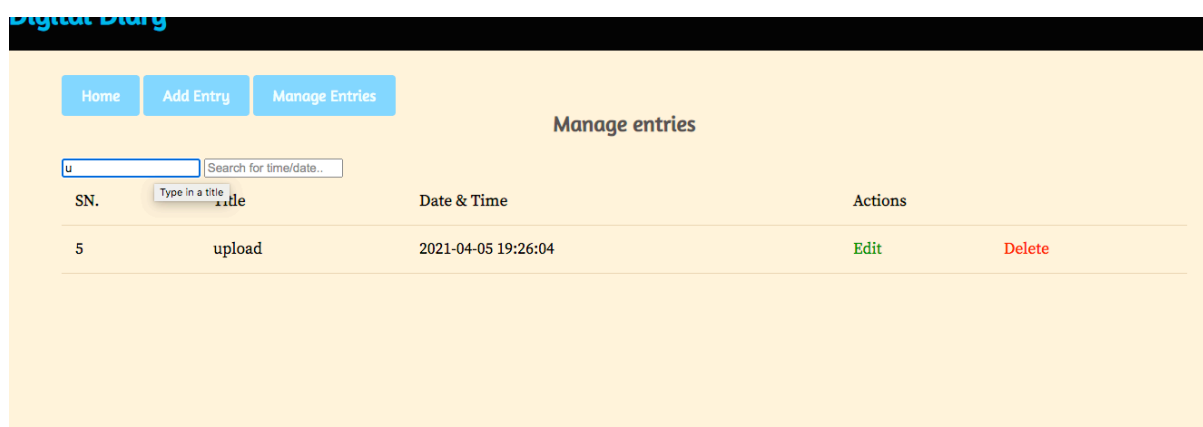
4. Can insert an image within an entry



5. It will have a search functionality where the user can search for a journal entry by inserting the title

&&

6. After searching, the data will be displayed in a tabular form according to symbol number, title, and date



7. The expense section will have a calculator and a table where the user can store their monthly expenses

None ▾

Calculate

ID	Month	Year	Savings	Expenses	Final Savings	Edit	Delete
2	March	2021	600	300	300	<div>Update</div>	<div>Delete</div>
3	February	2019	300	150	150	<div>Update</div>	<div>Delete</div>
6	June	2020	400	200	200	<div>Update</div>	<div>Delete</div>

8. All the data saved by the user will be stored in a database

Server: localhost:8889 » Database: Computer\_IA

Structure

SQL

Search

Query

Export

Import

Operations

Privileges

Filters

Containing the word:

	Table ▴	Action	Rows ?
<input type="checkbox"/>	Entries	<div>★</div> <div>📄 Browse</div> <div>📄 Structure</div> <div>🔍 Search</div> <div>➕ Insert</div> <div>🗑 Empty</div> <div>✖ Drop</div>	5
<input type="checkbox"/>	events	<div>★</div> <div>📄 Browse</div> <div>📄 Structure</div> <div>🔍 Search</div> <div>➕ Insert</div> <div>🗑 Empty</div> <div>✖ Drop</div>	3
<input type="checkbox"/>	Expenses	<div>★</div> <div>📄 Browse</div> <div>📄 Structure</div> <div>🔍 Search</div> <div>➕ Insert</div> <div>🗑 Empty</div> <div>✖ Drop</div>	3
<input type="checkbox"/>	help	<div>★</div> <div>📄 Browse</div> <div>📄 Structure</div> <div>🔍 Search</div> <div>➕ Insert</div> <div>🗑 Empty</div> <div>✖ Drop</div>	9
<input type="checkbox"/>	User	<div>★</div> <div>📄 Browse</div> <div>📄 Structure</div> <div>🔍 Search</div> <div>➕ Insert</div> <div>🗑 Empty</div> <div>✖ Drop</div>	7
	5 tables	Sum	27

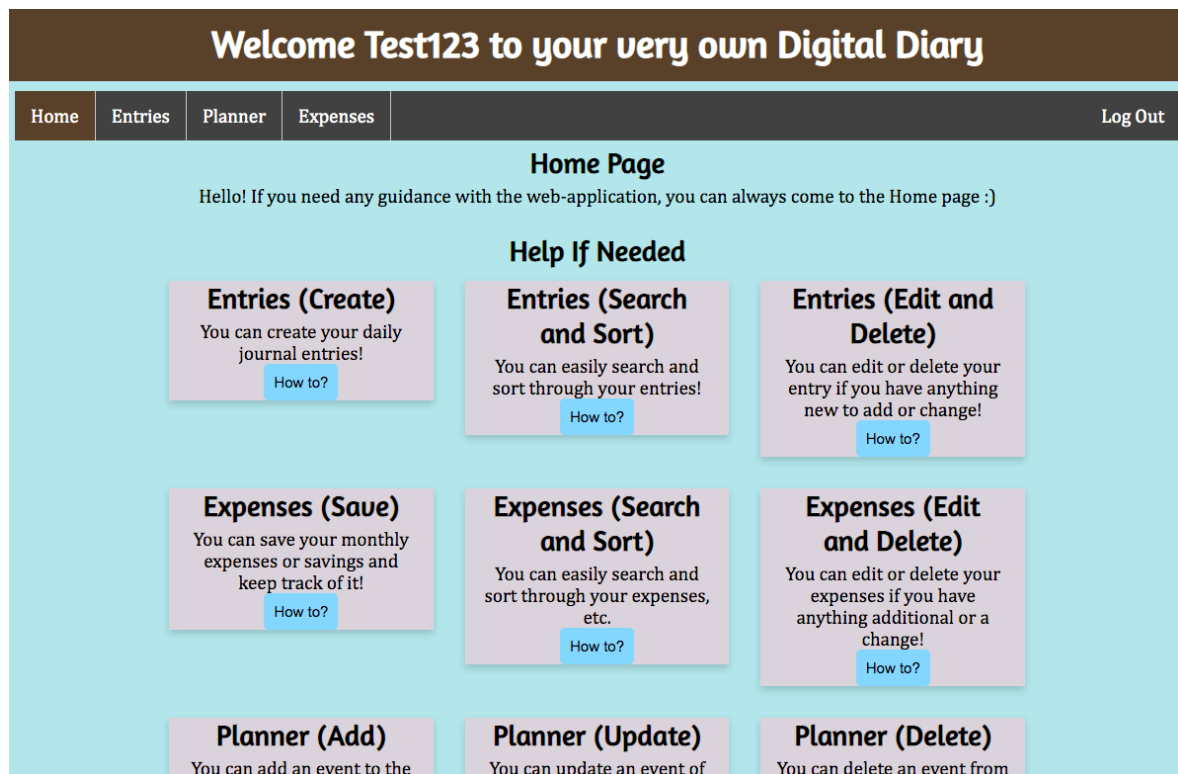
⬆

☐ Check all

With selected:

↕

9. Application will have a rich front-end that is understood by the user



10. The information in the tables can be sorted as required.

Savings	Savings
600	300
300	400
400	600

->

Representing Success Criteria with the Test Plans

Test Type	Met/Unmet	Description
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<b><i>Unit Testing</i></b>	<i>Met</i>	<p>Test whether or not each PHP, CSS and JavaScript files and their respective elements are working.</p> <p>Ensures Success Criteria 1, 3, 6 and 7 are met</p>
<b><i>Database Testing</i></b>	<i>Met</i>	<p>Test whether the database is connected to the PHP or not.</p> <p>Further test if using the 'add', 'update' and 'delete' functionalities causes the data in the database to change as well.</p> <p>Ensures Success Criteria 3, 4 and 8 are met</p>
<b><i>Calculation Testing</i></b>	<i>Met</i>	<p>Check if the calculations done by the calculator in the program are correct.</p> <p>Ensures Success Criteria 7 is met</p>
<b><i>Functionality Testing</i></b>	<i>Met</i>	<p>Test the functionality of buttons such as 'log in', 'sign in', 'search', 'save', 'update', 'view' and 'delete'.</p> <p>Ensures Success Criteria 3, 4 and 5 are met</p> <p>Check for error handling in the instances of confirming the password, username, etc. and whenever a user provides invalid input or abnormal and extreme data.</p>

<b><i>Dry run testing Testing</i></b>	<i>Met</i>	Manually testing for logical errors via a pen and paper to ensure that the program as a whole or parts of the program is working as intended.
<b><i>Integration Testing</i></b>	<i>Met</i>	<p>Check if the program works efficiently and smoothly when the units are integrated together.</p> <p>Test whether or not the transition from one page to another page is as intended and smooth, causing it to be as user friendly as possible.</p> <p>Ensures Success Criteria 2 is met</p>
<b><i>User acceptance Testing</i></b>	<i>Met</i>	<p>Give the application prototype to the client to test if all of the requirements are met.</p> <p>Receive feedback from the client regarding the prototype and how it can be improved further.</p> <p>Ensures Success Criteria 2, 9 and 10 are met</p>

## Recommendations for Further Development

The Digital Diary System had been prototyped once, which was well liked by my client<sup>1</sup>. When I asked my client whether she liked it or not, the following were the things she mailed me<sup>2</sup>;

1. It was definitely more convenient and easier than what she had initially thought of.
2. She was thoroughly impressed by it, however she did give me two recommendations to work on.
3. She wanted me to expand the search functionality from the “Entries” section to the “Expenses” action as well as from only the title
4. She was worried about her privacy while confiding in the digital diary so she asked me to make it more secure, which I did by encrypting the data.

In a recent one on one session with my adviser, he recommended that I should look into keeping the values in my sign up page so that when the page is refreshed while an error is pushed, my client would not have to re-enter her data. With Aarya’s recommendations, as well as Prayaschit sir’s, my advisor, I successfully developed my Digital Diary further by taking into consider these recommendations. In addition to those developments, the following improvements could be made to this Digital Diary.

## Improvements and Future development

**In-built calculation function:** The calculator present under the “Expenses” could have an improved GUI but since while inserting data; ‘savings’, ‘final savings’ and ‘expenses’, it would be redundant to calculate the final savings. So in the textbox ‘final savings’, I could add an auto fill function that subtracts the ‘expenses’ from the ‘savings’.

**A better visual component:** In the initial interview<sup>3</sup>, my client had mentioned that she would like for the pages of the entry to turn horizontally and realistically. Once the core functions have been implemented into the product, I could focus on making my client’s wish reflect on the product. By implementing JavaScript, jQuery and HTML5 to make use of

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<sup>1</sup> Refer to Appendix A.5 (Client’s thoughts)

<sup>2</sup> Refer to Appendix A.6 (Client’s feedback)

<sup>3</sup> Refer to Appendix A.2 (Transcript of Interview)



'Turn.js', for this, it would allow my client to virtually experience the real diary experience.

**Extend the product to a multiuser digital diary:** In the future, the product could be accommodating to more than one user in terms of storing the data together.

**Word count:** 538 (**excluding** headings and table)