Vanier College

Computer Science and Technology Department

System Development

420-436-VA

Deliverable 4

Orange Team

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Client: FavoriteDesign stretch ceilings

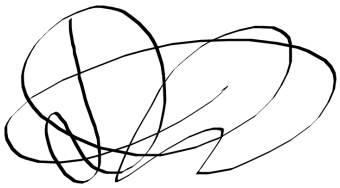
3/9/2023

We, the orange team, certify that this project is our own work.

Code learned and used from our eCommerce class will be used for features of our project.

I, Philip Dubé, student ID#2145451, confirm that I have contributed to this deliverable.

I, Daniel Levitin, student ID# 2162749, confirm that I have contributed to this deliverable.



I, Jericho Nieva, student ID# 6161653, confirm that I have contributed to this deliverable.

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Executive Overview

This document is an important overview of the upcoming e-commerce website project, including updates to our team and client information.

Our client remains Alexander Levitin, one of the owners of Favorite Design, a stretch ceilings business. He studied mechanical engineering, then went into renovations and eventually to stretched ceilings. He has basic knowledge when it comes to using technology.

The business problem of our clients remains the same: manually writing down records on paper. This is inefficient for adding/removing/editing information, looking for a specific record, and doesn't allow to filter the records, at least not in a scalable way. Through user stories, tests and mapping, we have identified the features that will be implemented in the website to address the problem mentioned.

After discussing the business problems, the document presents a Narrative Description of the database application that will be developed. This flowing narrative provides detailed information on the goal and finished product from a user point of view. It explains how the user can navigate the website, view, add, update and delete records.

The document concludes with three appendices containing important documentation for the user stories of this project. Appendix 1 describes the process used to obtain the user stories and the list of them. Appendix 2 includes scenarios of user story tests for each story in Appendix 1 and transcriptions of all user story tests. Appendix 3 contains our user story map, the printout of said map and references to our list of user stories.

Summary of the Client

Alexander Levitin, Daniel's dad, is a man from Ukraine who studied mechanical engineering in University, and eventually went into renovation, and more specifically stretch ceilings, which he temporarily went back to school for with the other owner to get proper certification. He has the computer knowledge that an average middle-aged person has, meaning that he knows the basics when it comes to navigating computers, phones, and other electronic devices. However, he doesn't have much knowledge when it comes to coding and when it comes to more advanced stuff such as the developer tool for websites.

Alexander Garbovnik, the other owner and a good friend of Daniel's dad, studied music and plays guitar and piano. He eventually went into renovations, and along with the other owner, went back to school temporarily to get proper certification for making stretched ceilings. He has similar knowledge in terms of technology as Alexander Levitin.

The Business Problem

Our client has a problem with how they keep a record of their clients, as they currently are doing physically through paper and pencil/pen. This is inefficient for adding/removing/editing information, looking for a specific record, and doesn't allow to filter the records, at least not in a scalable way. It also makes it unrealistic to create a backup, which is an important risk to consider for a business that plans to exist for a long time. Furthermore, sending data or records to someone would involve them either recopying them, scanning them with a printer, or taking pictures, so the communication between the two owners isn't very efficient. With an online Database Management System, communication about certain clients becomes very easy, convenient, and the owner who doesn't currently have the booklet of records doesn't need to wait for the other owner to send it.

Another problem encountered by our client is that they don't have a landing page/poster for their different services that they offer, which makes it difficult to advertise in newspapers, online ads, etc. So, one solution is to create a nice and compact landing page, where clients get all of the important information, while also getting sold on the product as much as possible with the limited words.

Narrative description

Our client Alexander Levitin will soon have the convenience of a website instead of a notebook. After logging into the website with a valid username and password combination, the user will be greeted by a home page displaying the most recent project and expense records.

The user will be able to manipulate records through buttons at the top of the screen. The “Add” button for the respective table will bring the user to the corresponding page, where they will be able to input the information of the new record. Records will be customizable with the click of the “Edit” button. Finally, clicking the “Delete” button will allow the user to select one or more records to be deleted. Additionally, records will be sortable by column depending on the user’s needs.

Furthermore, to view older records, the user will have to click on the “Load More” button at the bottom of each table. The number of records shown will be customizable depending on the user’s needs.

The user will also be able to globally search for a specific piece of information with the search bar at the top of the page. Particular filters will be available for enhanced search.

Finally, a button to calculate the pay split will be at the top-right corner of the home page. This allows the user to get a report of the pay split since the last one was performed.

Appendix I

To further understand the needs and requirements of end-users, Daniel, our main point of contact with our client, used various methods, such as interviewing the client and analyzing the feedback. Meetings with the client and the rest of the members also helped with the understanding of the requirements.

As a…	I want to…	So that I can…	Test criteria
Admin	login	view and manipulate information	01
Admin	logout	avoid unwanted users to access important and sensitive information	02
Admin	view recent expense and project records	add a balance to a project or get a reminder for recent information	03
Admin	view older records	confirm or get a reminder for older information	04
Admin	view expenses records	keep track of spending amount and who's been spending	05
Admin	view project records	see recent projects records exclusively, allowing me for a more particular view	06
Admin	view trips	keep track of where we've been and how much I've driven	07
Admin	be able to add a record	add information to the database for the required table	08
Admin	be able to edit a record	update information in the database for the required table (mainly adding a balance to a project)	09

Admin	be able to delete a record	remove an unwanted record or fix a typo	10
Admin	be able to search through the data	find information relating to a specific client, address, etc.	11
Admin	calculate the pay split with the other owner	get even with the pay between us	12
Admin	see and use autofill options for supplier name	add an expense record faster and more efficiently	13
Admin	be able to customize my supplier autofill options	get a specialized menu of supplier names	14
Admin	be able to customize the number of shown records per load more click and by default	view more or less records depending on my current needs	15
Admin	use the option to undo changes	go back on unwanted or accidental changes	16
Admin	use the option to redo	go back on accidental or unwanted undoes	17

Appendix II

Story 01: Logging in

Scenario 01: Verify that a user can log in with proper credentials

Given [the user is on the website's login page]

And [user has an account]

When [user enters correct credentials]

And [clicks "login"]

Then [user is logged in]

And [user sees the home page]

Scenario 02: Verify that the user cannot log in with the wrong password

Given [user is on the website's login page]

And [user has an account]

When [user enters the correct username but wrong password]

And [clicks "login"]

Then [an error message informs the user that the user entered an invalid username/password combination]

Story 02: Logging out

Scenario 01: User logs out

Given [user is on the website]

And [user is logged in]

When [user clicks on “logout”]

Then [a confirmation prompt is displayed]

When [user confirms that they want to log out]

Then [user is logged out]

And [user sees the login page]

Scenario 02: The user cancels their logout

Given [user is on the website]

And [user is logged in]

When [user clicks on “logout”]

Then [a confirmation prompt is displayed]

When [user denies the logout]

Then [user remains logged in]

Story 03: Recent expense and project records

Scenario 01:

Given [user is logged in]

When [user is on the home page]

Then [user sees recent expenses and project records]

Story 04: Older records

Scenario 01: The user wants to load more records on the corresponding page

Given [user is on a page that shows a table of records]

When [user clicks “Load More”]

Then [user sees more records for the corresponding table]

Story 05: Expenses table

Scenario 01: The user wants to view the Expenses table

Given [user is on the home page]

When [user clicks on “View Expenses”]

Then [user sees the Expenses table]

Story 06: Projects table

Scenario 01: The user wants to view the Projects table

Given [user is on the home page]

When [user clicks on “View Projects”]

Then [user sees the Projects table]

Story 07: Trips table

Scenario 01: The user wants to view the Trips table

Given [user is on the home page]

When [user clicks on “View Trips”]

Then [user sees the Trips table]

Story 08: Adding records

Scenario 01: The user wants to add a record

Given [user is on an add record page]

When [user enters the new record's fields]

And [user clicks "Add Record"]

Then [new record is added]

And [user sees the table that the record was added to]

Scenario 02: The user wants to cancel the addition of a record

Given [user is on an add record page]

When [user enters the new record's fields]

And [user clicks "Cancel"]

Then [new project record is not added]

And [user sees the table that the new record was not added to]

Story 09: Edit records

Scenario 01: The user wants to edit an expense record

Given [user is on an edit page]

When [user inputs the required data]

And [user clicks "Edit Record"]

Then [the information of the specific record in the table gets updated]

And [user sees the table in which the record was edited]

Scenario 02: The user want to cancel the modification of a record

Given [user is on an edit page]

When [user inputs the required data]

And [user clicks "Cancel"]

Then [new project record is not updated]

And [user sees the table in which the record was not edited]

Story 10: Deleting records

Scenario 01: The user wants to delete records

Given [user is on a delete page]

When [user clicks on one or more checkboxes]

And [user clicks “Delete Record(s)”]

Then [the selected records along with a confirmation prompt are displayed]

When [user clicks “Confirm Deletion”]

Then [selected records are deleted]

And [user sees the table in which the record was deleted]

Scenario 02: The user wants to cancel the deletion of the record

Given [user is on a delete page]

When [user clicks on one or more checkboxes]

And [user clicks “Delete Record(s)”]

Then [the selected records along with a confirmation prompt are displayed]

When [user clicks “Cancel”]

Then [selected records are not deleted]

And [user sees the table in which the record(s) were not deleted]

Story 11: Searching

Scenario 01: The user wants to search for a specific piece of data within a record

Given [user is on any page with a table]

When [user inputs a specific piece of data in the search bar]

And [user presses “Enter” on the keyboard]

Then [user sees the matching results from the featured table]

Scenario 02: The user wants to search for a specific piece of data within a record based on filters

Given [user is on any page with a table]

When [user chooses a filter to enhance the search]

And [user inputs a specific piece of data in the search bar]

And [user presses “Enter” on the keyboard]

Then [user sees the matching results from the featured table]

Story 12: Pay slip calculation

Scenario 1: User wants to calculate the pay split

Given [user is on the home page]

When [user chooses clicks “Calculate Pay Split”]

Then [user sees a report of the pay split]

And [red pay split marker gets brought to top of project/expenses table]

Story 13: Autofill options for supplier names

Scenario 1: User wants to add an expense record faster

Given [user is on the add expense page]

When [user clicks on a supplier name]

Then [supplier name field gets auto filled with the selected supplier name]

Story 14: Customizing autofill options for supplier names

Scenario 1: User wants to add a supplier name autofill option

Given [user is modifying the supplier name autofill options]

When [user clicks on/off a checkmark]

Then [supplier name autofill option is added/removed accordingly]

And [user sees the add expense page]

Scenario 2: User wants to cancel the customization of the supplier name autofill option

Given [user is customizing the supplier name autofill options]

When [user clicks on “Cancel”]

Then [supplier name autofill customization is canceled]

And [user sees the add expense page]

Story 15: Customizing the number of records shown

Scenario 1:The user wants to customize the number of records shown

Given [user is customizing the number of records shown]

When [user clicks on “Update”]

Then [number of records shown is updated]

And [user sees the corresponding table]

Story 16: Undoing changes

Scenario 1: The user wants to undo the latest change

Given [user is on the website]

And [user has made a change in the website]

When [user clicks “Undo”]

And [user clicks “Confirm” in the prompt]

Then [the latest change made to the website is undone]

Scenario 2: The user wants to cancel the undo of the latest change

Given [user is on the website]

And [user has made a change in the website]

When [user clicks “Undo”]

And [user clicks “Cancel” in the prompt]

Then [The Undo operation is canceled]

Story 17: Redoing changes

Scenario 1: The user wants to redo the latest change

Given [user is on the website]

And [user has undone a change on the website]

When [user clicks “Redo”]

And [user clicks “Confirm” in the prompt]

Then [the latest change made to the website is redone]

Scenario 2: The user wants to cancel the redo of the latest change

Given [user is on the website]

And [user has made a change in the website]

When [user clicks “Redo”]

And [user clicks “Cancel” in the prompt]

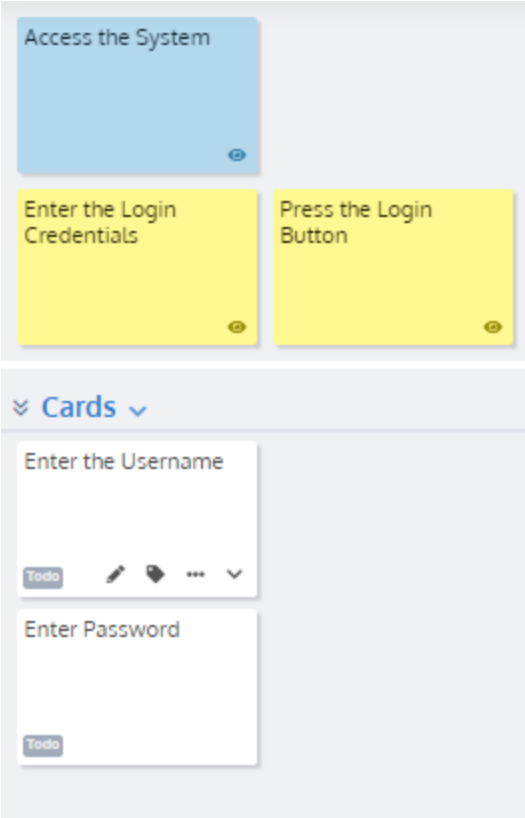
Then [The Redo operation is canceled]

Appendix III

Story 1:

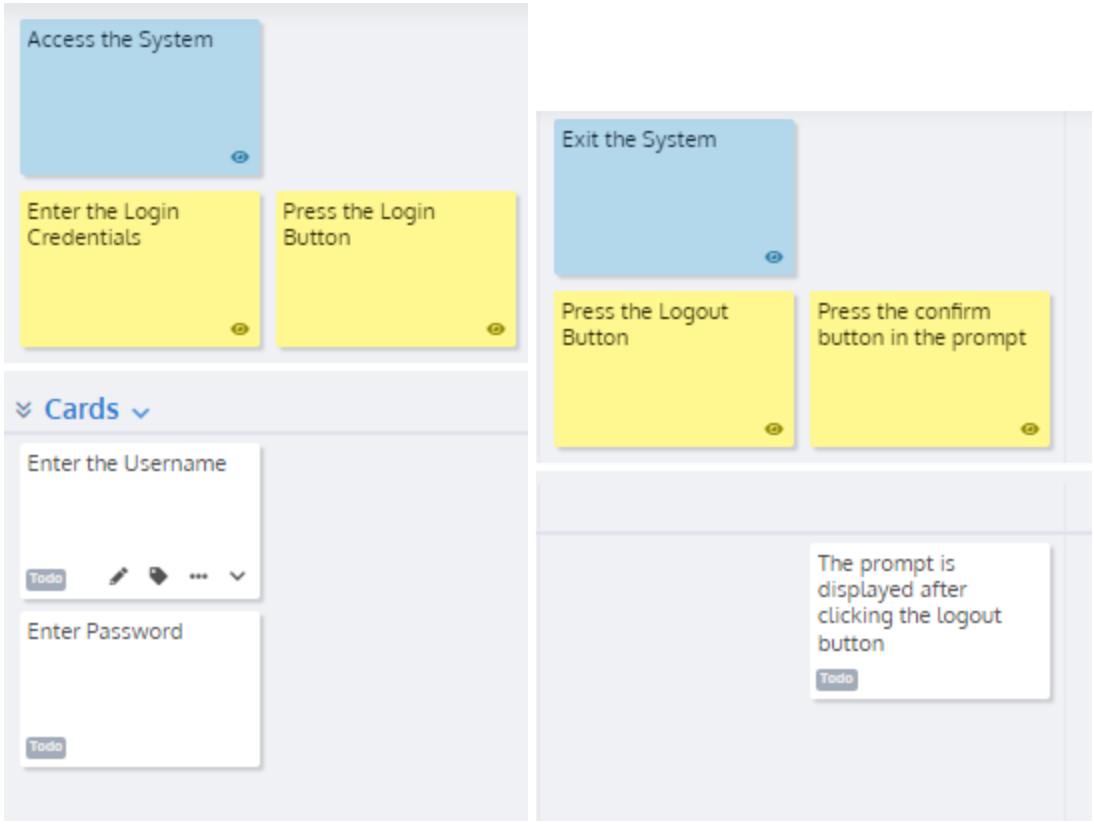
Logging in the System.

This Story is required before doing any other activity.



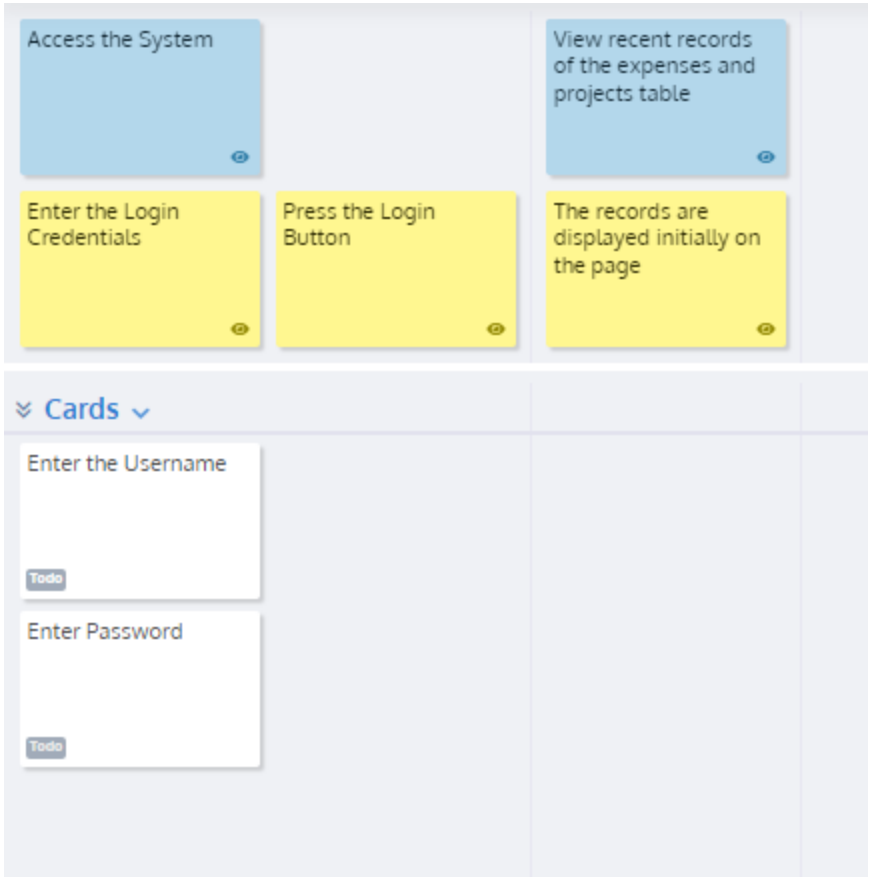
Map 2:

Logging out of the System.



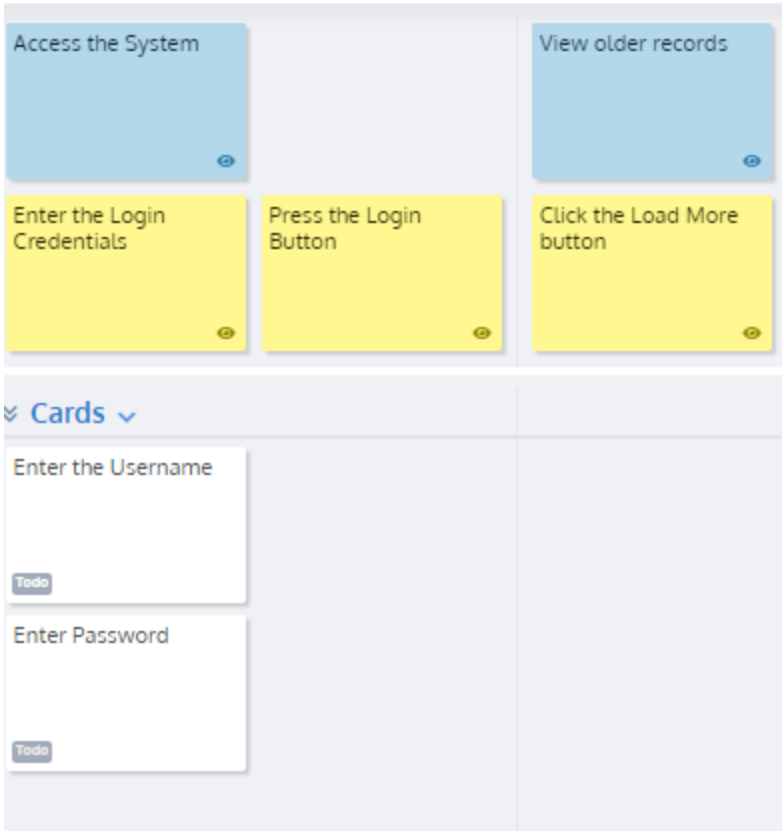
Map 3:

View recent records in the projects and expenses table.



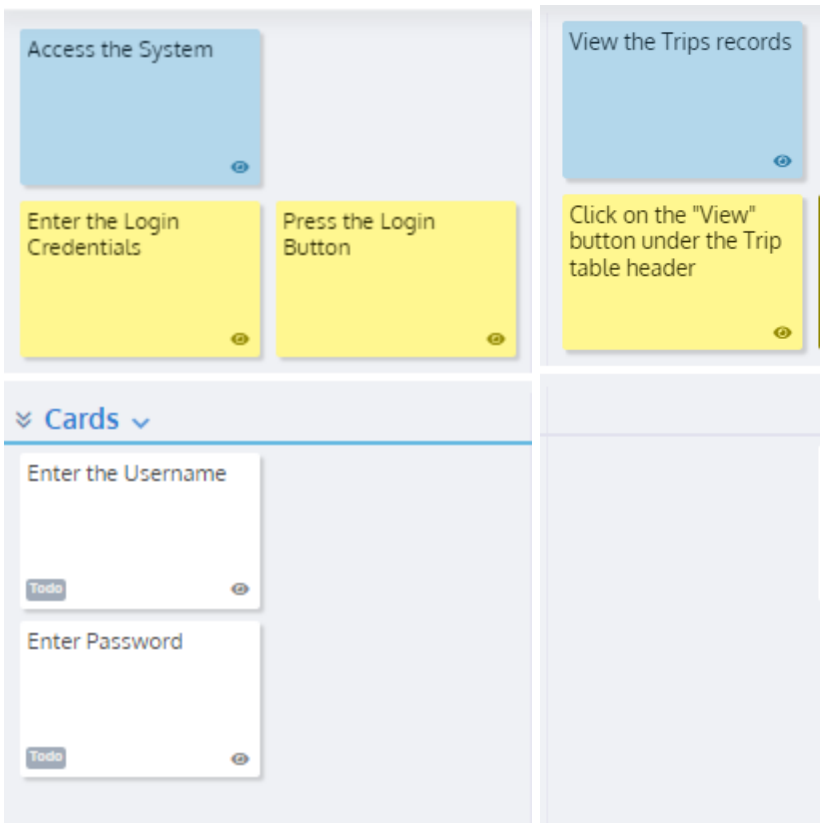
Map 4:

View older records in the projects and expenses table.



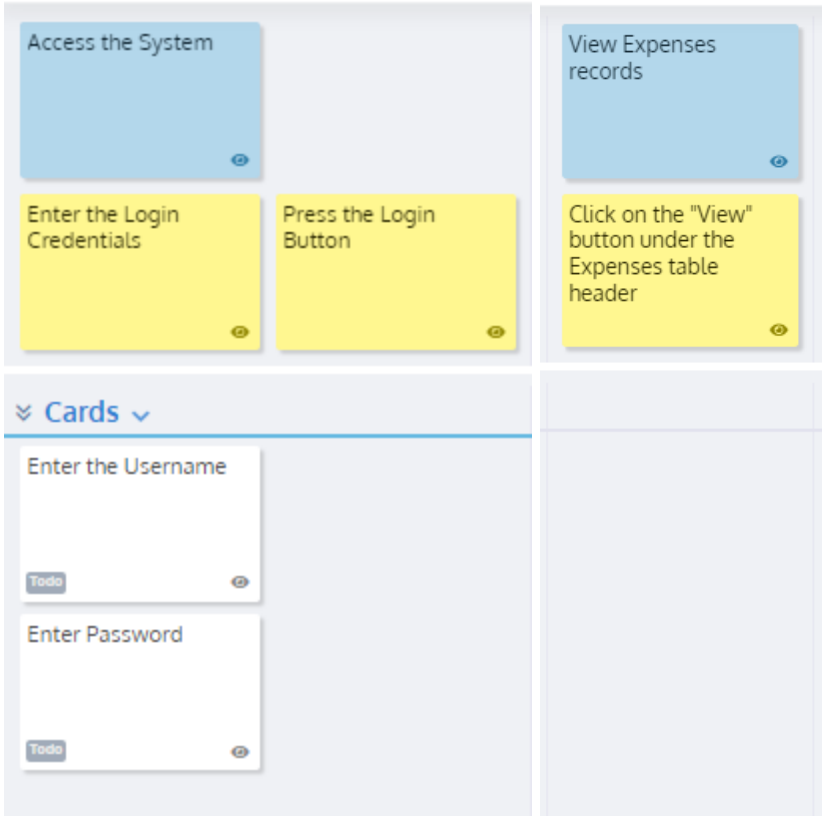
Map 5:

View the Trips table.



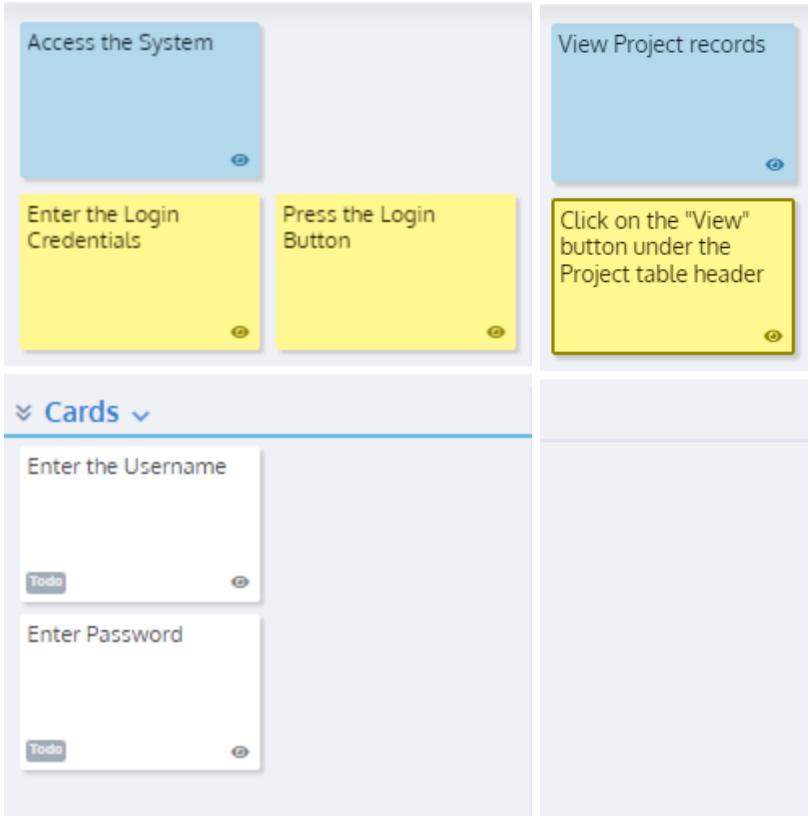
Map 6:

Being able to view the expenses records



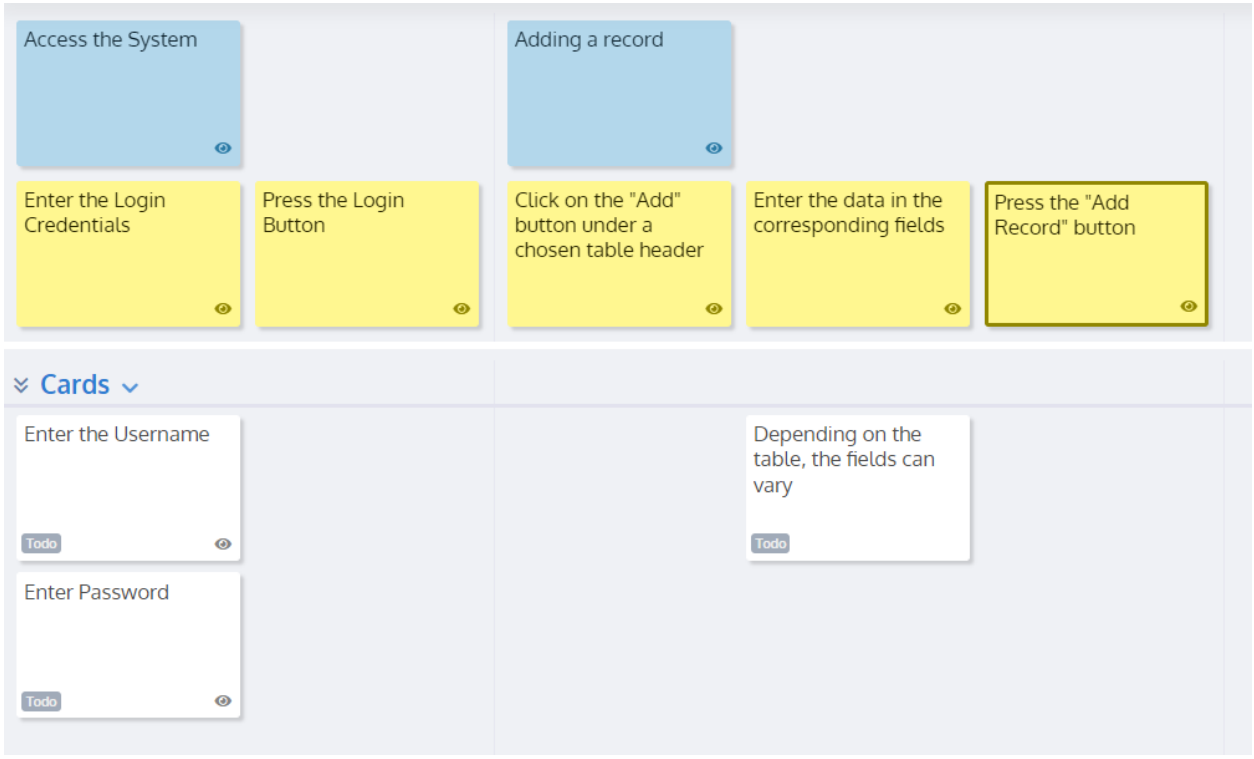
Map 7:

Being able to view the projects records



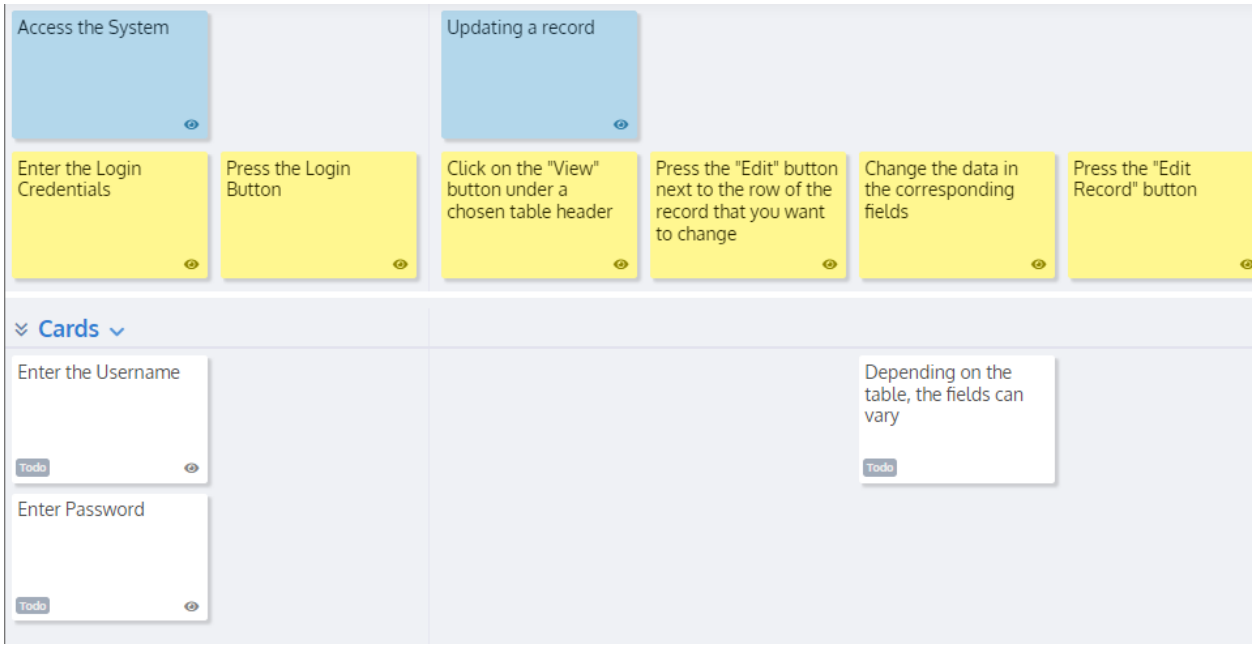
Map 8:

Being able to add a record.



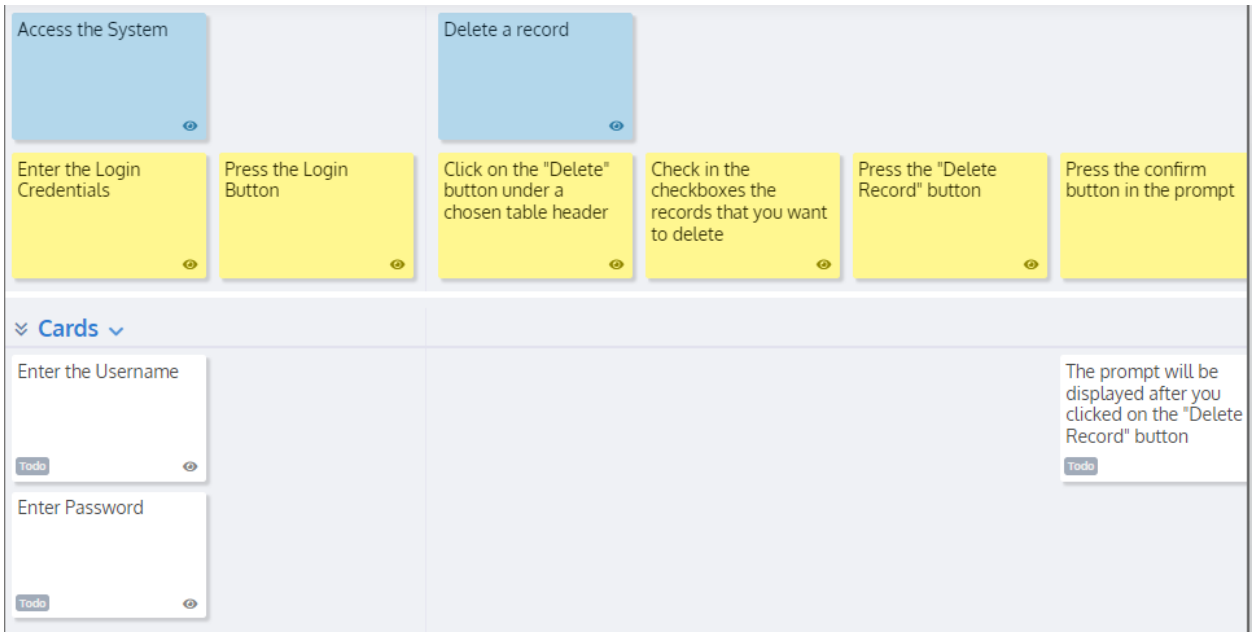
Map 9:

Being able to edit a record.



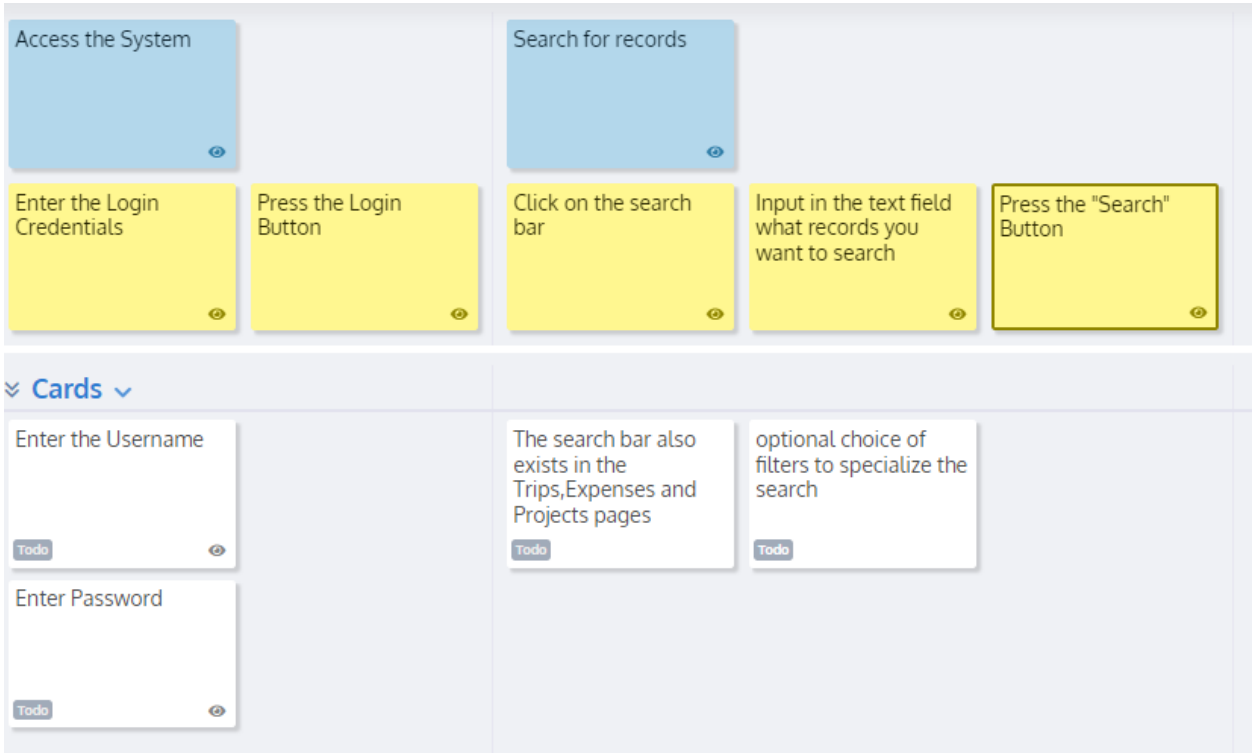
Map 10:

Being able to delete a record.



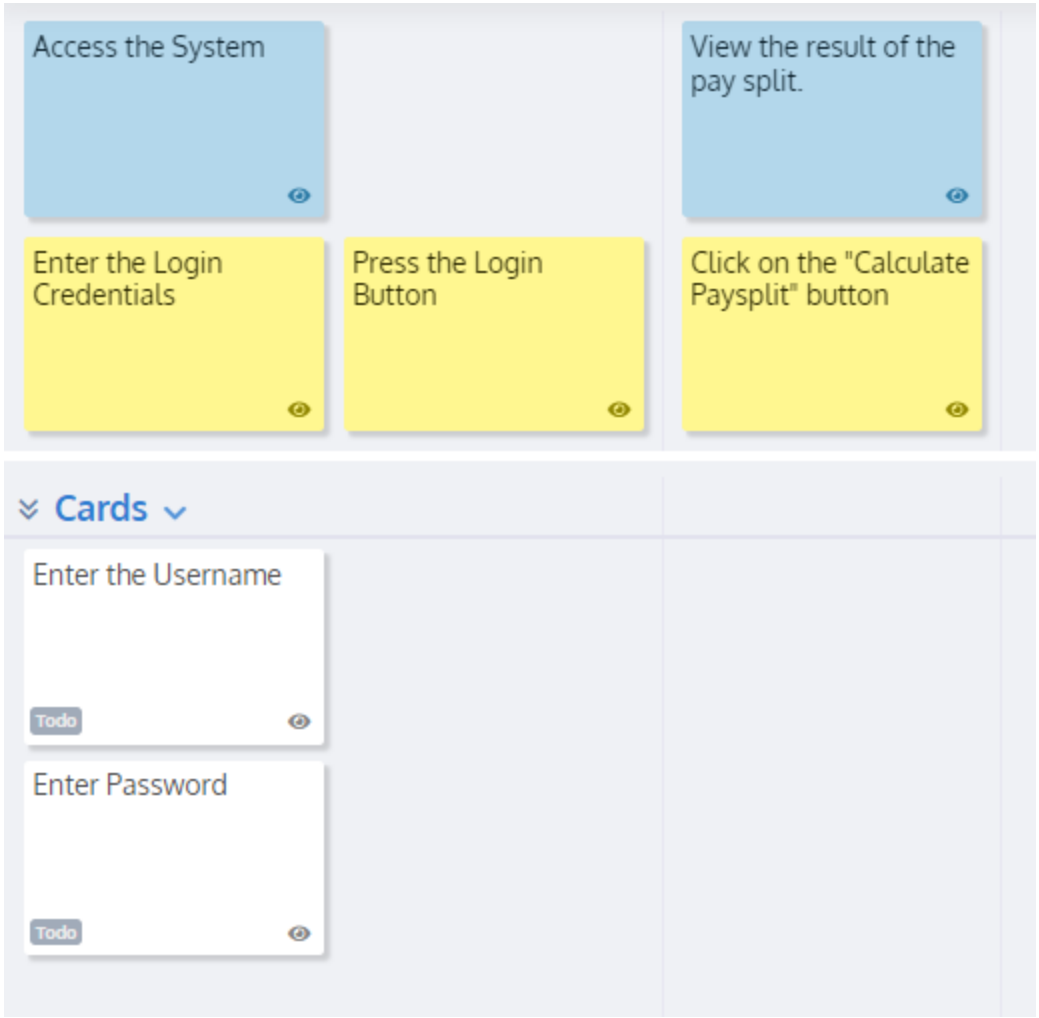
Map 11:

Being able to search for records.



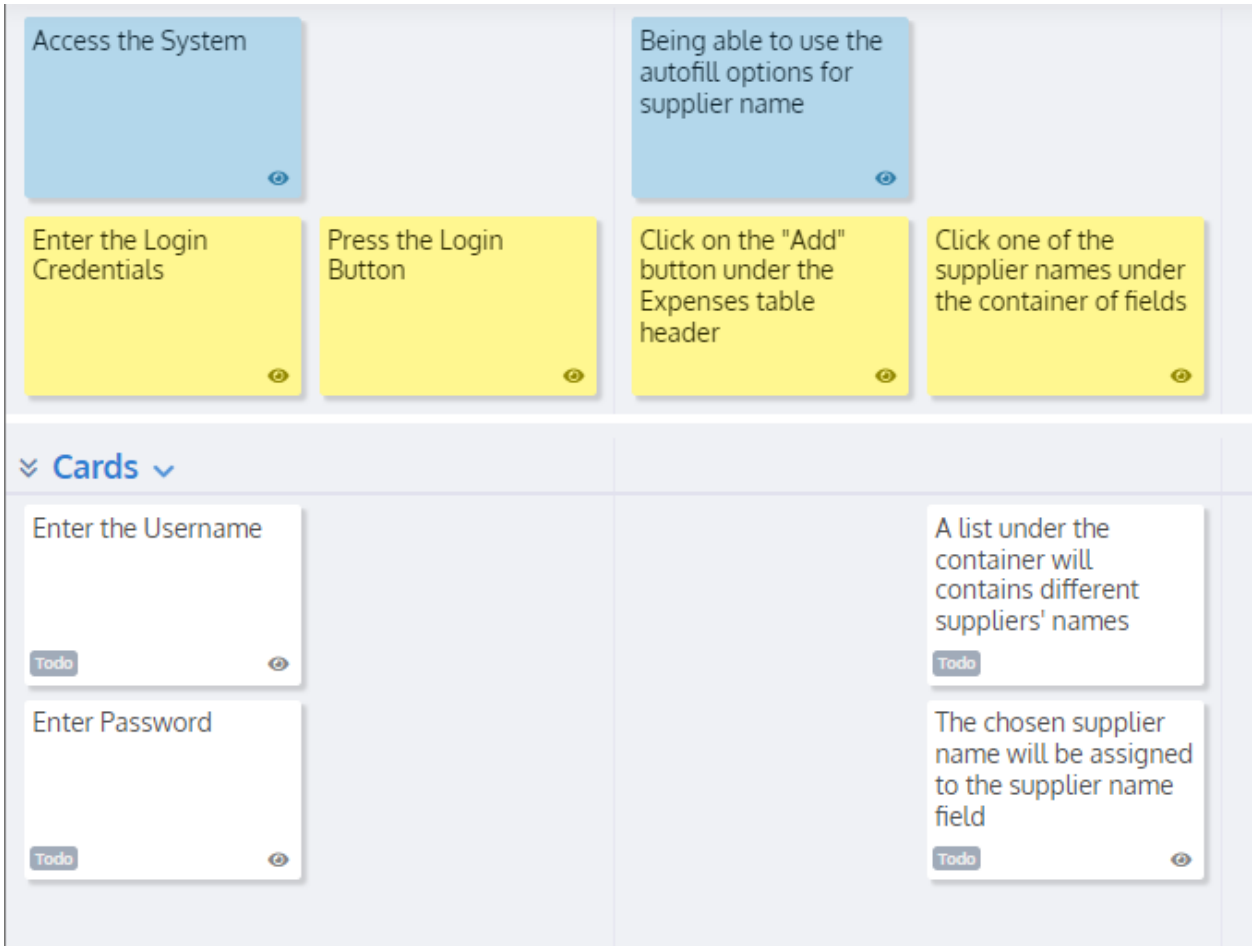
Map 12:

Being able to see the result of the pay split of the net profit.



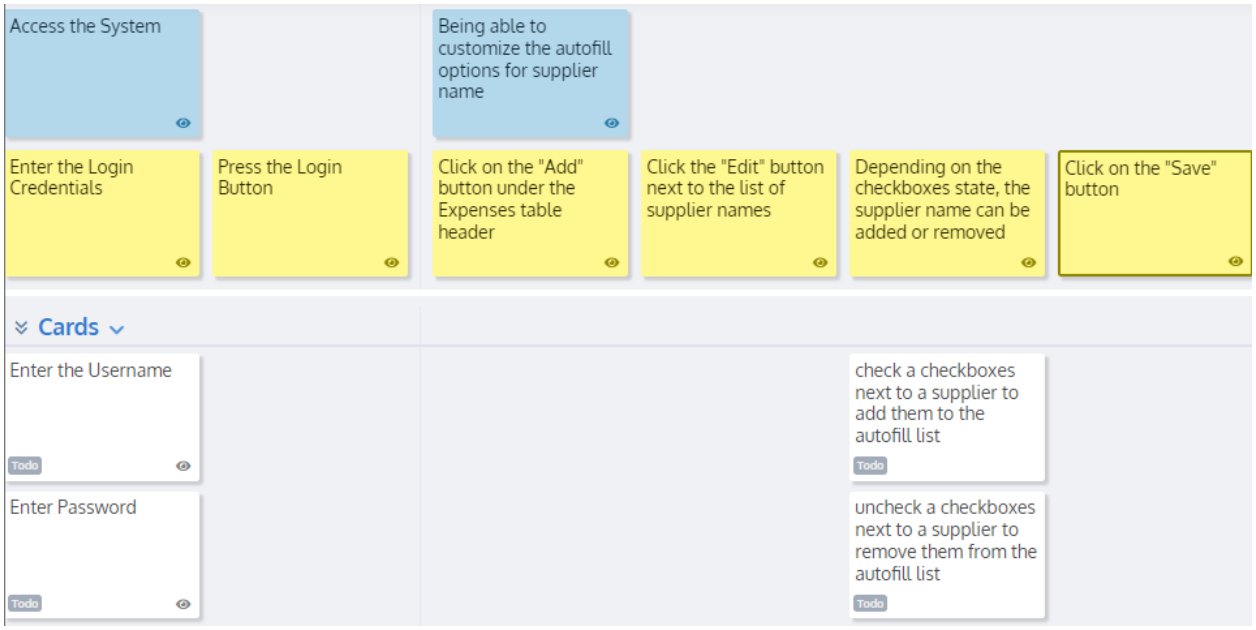
Map 13:

Being able to use the autofill options for the supplier name.



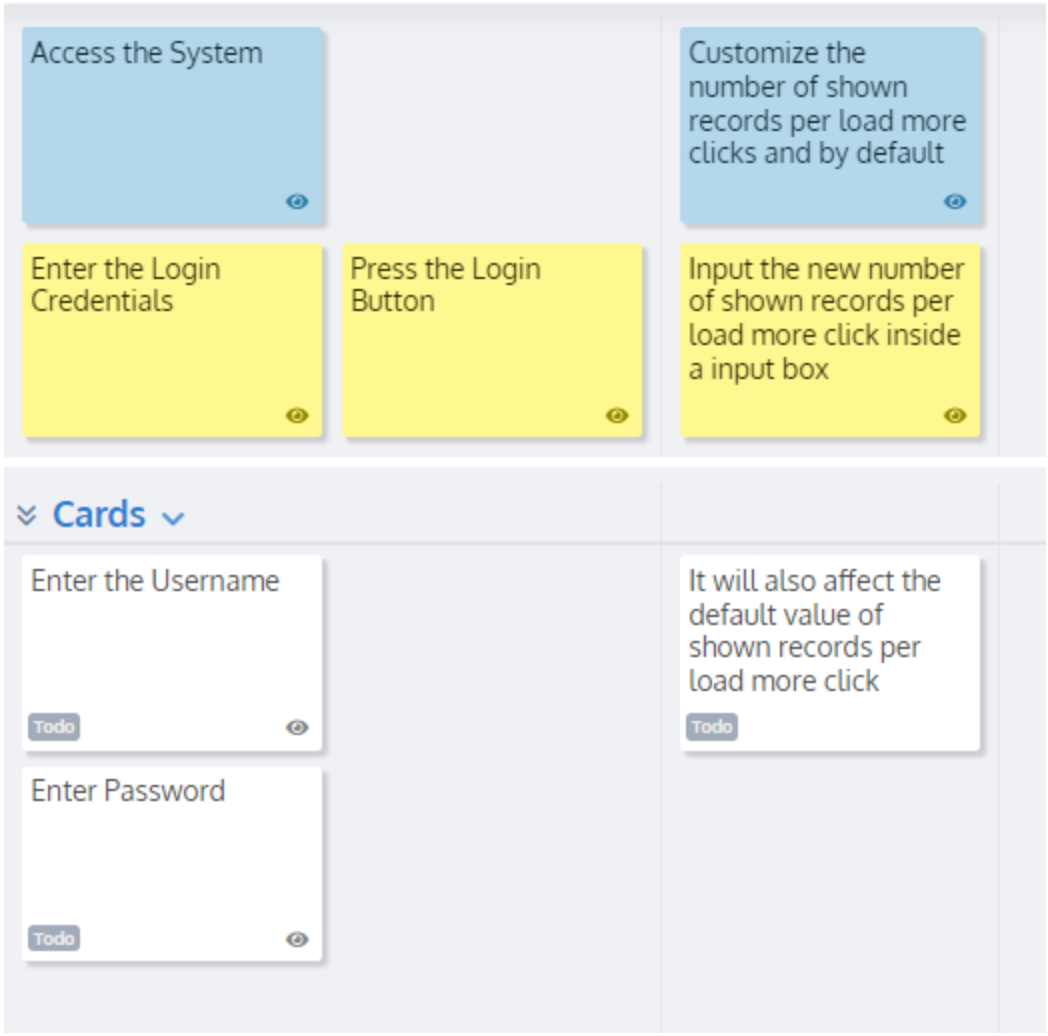
Map 14:

Being able to customize the supplier name autofill options.



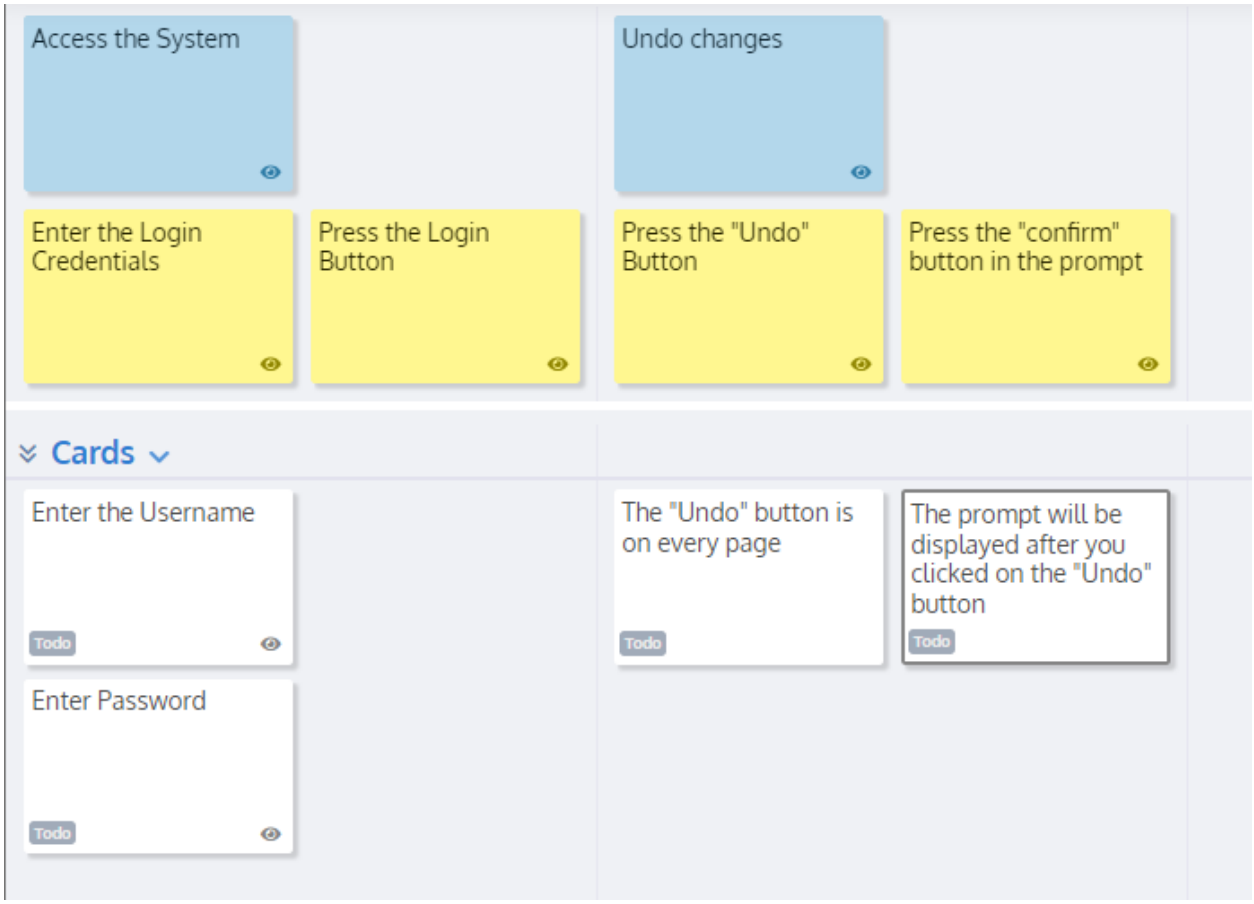
Map 15:

Being able to customize the number of shown records per load more click and by default.



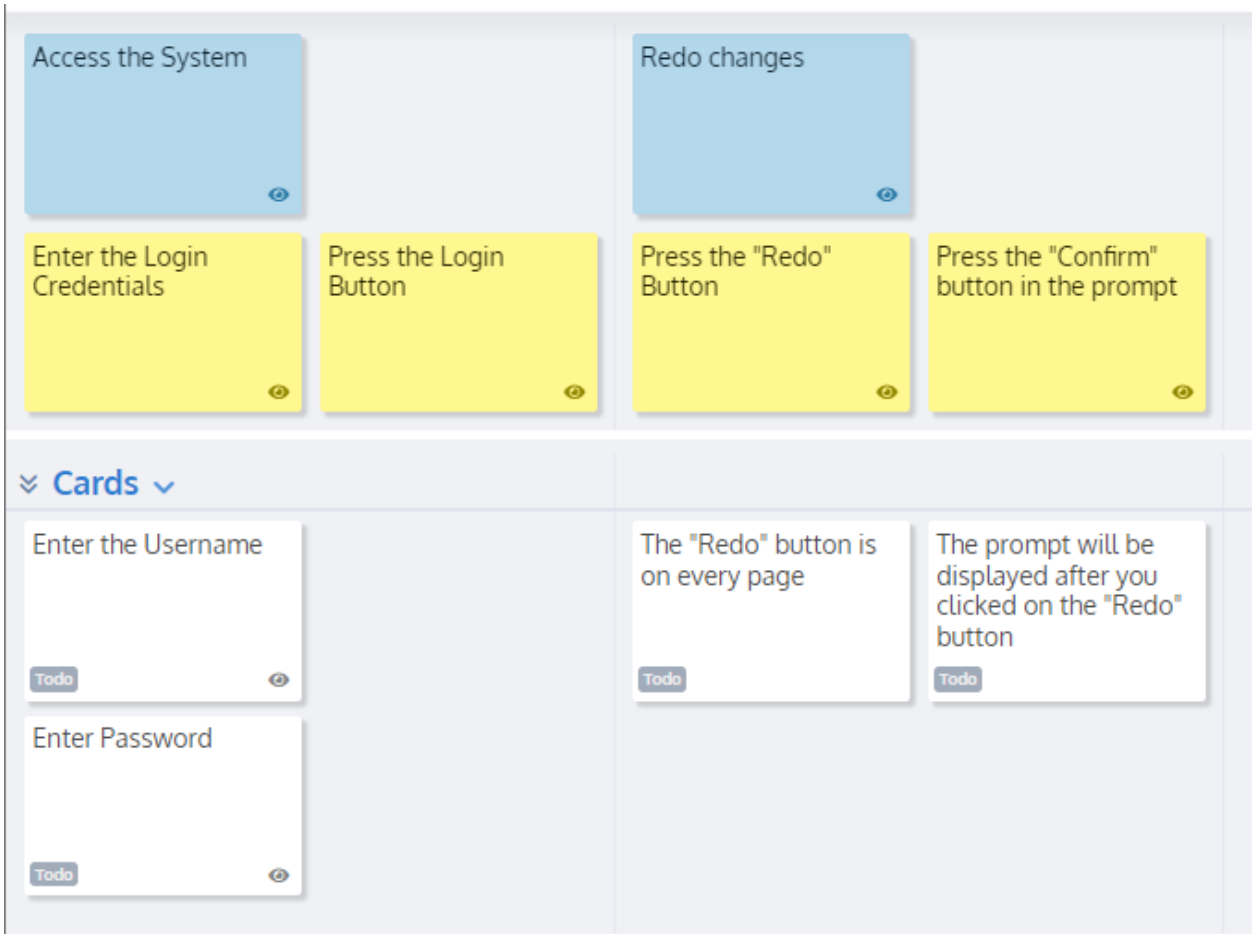
Map 16:

Being able to undo changes.



Map 17:

Being able to redo changes.


Access the System
Redo changes
Enter the Login Credentials
Press the Login Button
Press the "Redo" Button
Press the "Confirm" button in the prompt
Cards
Enter the Username
Todo
The "Redo" button is on every page
Todo
The prompt will be displayed after you clicked on the "Redo" button
Todo
Enter Password
Todo

Mediography

***Stretch Ceilings Market Trend, Size, Share | Report [2028]*. (2021, February). Business Research Insights. Retrieved February 23, 2023, from https://www.businessresearchinsights.com/market-reports/stretch-ceilings-sales-market-100067**

(n.d.). Stretch Ceilings and Wall Decor in Montreal. Favorite Design. Retrieved February 23, 2023, from https://www.favoritedesign.ca/en/