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Client: Anas & Moustafa

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Statements

Code from our eCommerce class will be used for certain features of this project.

We, the Purple Team, ensure that this document is our own work.

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Executive Overview

The main content of this delivery is the documentation related to the user stories that will be implemented in our information system. We also have the summary description for our client, their business problem, and a narrative description of the future information system. Our e-commerce project will also include these user stories in Gherkin plain-text language as well as in the acceptance tests.

Firstly, our clients are Anas and Moustafa, owners of the Sweemory ice cream shop. They have been opened since last August and have a Dairy-Queen as competition. One of the owners are knowledgeable about IT, while the other has experience working in a bakery shop. They have an online presence since you can order from Sweemory on UberEats and DoorDash.

As always, their main business problem remains the same. They do not have an efficient way of tracking their products. Therefore, they have issues with overstocking and not knowing when products and items are about to expire in an efficient manner.

Next, our narrative description tells us in narrative format, the flow of our information system in the point of few of users that are employee(s), admin and the IT person. From the entry point of the website to the steps users take to navigate the site to achieve a specific task.

Our first appendix contains four different tables describing all our user stories in a list format. The four tables are: Admin, Employee, IT person and User which represents the first three. We also describe the process we used to gain these user stories. Essentially, it was with a meeting with the client.

Our second appendix contains the story tests for each user story in the first appendix. These tests go in detail about the different possible scenarios that a user story can partake. Then, each scenario explains the flow of the user story in an understandable format. So that anyone without technical knowledge and programmers can have the same level of understanding for the user story.

Lastly, the third appendix describes our choice for the software used to make the story map. t. Essentially, we chose Trello since it has a user-friendly interface that is easy to set up and navigate. Our story map is separated into three parts. These are admin control, employee control and IT control. The map helps us put into perspective the table listings from the first appendix.

Summary Description of the Client

Anas and his twin brother Moustafa own and manage an ice cream shop called Sweemory in Ahuntsic-Cartierville, which they started in August of last year. Anas has a background in the bakery industry and decided to start this business to relive his previous work experience. Meanwhile, Moustafa is studying Internet of Things and will manage the web application once it is completed, using his software development skills.

Despite facing competition from a nearby Dairy Queen, the ice cream shop has an impressive 4.9 rating on Google, which is a testament to the quality of their products and services. They prioritize providing their customers with the best experience possible, and their high rating reflects that. They are well on their way to becoming a well-known brand in the area.

To increase their customer base, they have partnered with various food delivery services such as UberEats and DoorDash. This has allowed them to reach a wider audience. However, there are still some internal issues that they can improve upon, which will be discussed in the next section.

Business Problem

Our client faces two major issues. Firstly, it is difficult to keep track of product expiration dates, which is time-consuming and requires significant employee effort. To solve this, we recommend implementing a system that automatically tracks dates and alerts the owner when a product is nearing expiry. This would simplify the monitoring process, save time, effort, and improve monitoring accuracy and efficiency.

Secondly, overstocking wastes resources and affects the store's profitability. We suggest implementing a website that provides real-time updates on stock availability. This would help employees keep track of products in stock and prevent overstocking. The website would also display items that may be on the verge of expiring, which can include a discounted price if given.

The website would also serve as a centralized platform for employees to access crucial product information, such as prices, descriptions, and locations within the store. This would make the workforce more knowledgeable about the products and improve the efficiency of store operations.

In summary, through the implementation of a system that automatically tracks product expiration dates, a website that provides real-time updates on stock availability, and a centralized platform for employees to access important product information, we can help our client reduce food waste, improve the efficiency of store operations, and ultimately increase profitability.

Narrative Description

When a user tries to access the system, there are three possible roles they could have. The First possible user is an Employee. Once an employee logs in, they will be presented with the product page which displays every product they are selling. The user will be able to click on a certain product so that they can view the details of that one product. As an Employee, they can only modify the quantity of the product in the detail page. Furthermore, the employee will also be able to view an item page which will display the items being used to make the finished product. In this page, the employee will have the permission to view the details of an item. However, they cannot modify any information. They will only be limited to viewing the items.

When a user logs in as an admin, just like the employee, they will be presented with a list of the products being sold. However, the admin will have the ability to add a new product to the list. When an admin decides to view the details of a product, they will have the ability to modify any of the information displayed for that product. Furthermore, he can also delete the product if they no longer wish to display it among the list of products. The items page will also be accessible by the admin, but unlike the employee, the admin will have the same permission in the item page as he had in the product page. He will be able to add, view details, edit details, and delete items.

Both the employee and the admin will have a search bar in the items and products page which they can use to search for a specific product or item. Furthermore, if an item or product is low on stock, or they are about to reach their expiration date, the system will notify them by displayed a message on the main page.

Since we don't want any outsider to have access to this system and create their own accounts, there will be one IT user who will be responsible for making employees and admins. When the IT specialist logs in, they will be able to see all the other users who have access to the system. Both the admins and the employees will be displayed on the main page. The IT user will also be able to create a new employee or admin or view the user's information. When he views their information, he will be able to edit the user information or completely delete the user himself. Finally, every user will have the ability to log out of their account.

Appendix I

Process Used to Obtain User Stories

The processed we used to obtain the user stories was with a meeting. The participants of the meeting were the owner of Sweemory and all member of the team. We first explained the concept of user stories to the client. Then we asked him to describe the user stories for us, while one team member took notes of them.

Admin

As a ...	I want to ...	So that I can ...	Test Criteria
Admin	view all products and items	Add, edit and remove any of my products and items.	01
Admin	Add a product	Provide new products for my customers	02
Admin	Edit a product	Change information for an existing product	03
Admin	Remove a product	Stop selling a product	04
Admin	Add an item	Provide new items for my customers	05
Admin	Edit an item	Change information for an existing item	06
Admin	Remove an item	Stop selling a item	07
Admin	Search a product or item	Find a product or items easily	08
Admin	View all the notifications	Know which products or items are expiring or low on stock	09

Employee

As a ...	I want to ...	So that I can ...	Test Criteria
Employee	view all products/items	Edit the quantity of a product	01

Employee	Edit a product quantity	Change the amount for the inventory	10
Employee	Search a product/item	Easily find a product	08
Employee	View all the notifications	Know which products or items are expiring or low on stock	09

IT specialist

As a ...	I want to ...	So that I can ...	Test Criteria
IT specialist	view all users	See all the users and their information	11
IT specialist	Add an employee	Give a user account to the employee	12
IT specialist	Edit an employee	Change information of the employee's account	13
IT specialist	Remove an employee	Delete the employee's account	14
IT specialist	Add an admin	Give a user account to the admin	12
IT specialist	Edit an admin	Change information of the admin's account	13
IT specialist	Remove an admin	Delete the admin's account	14

User

As a ...	I want to ...	So that I can ...	Test Criteria
User	login	Access my account	15
User	Log out	Leave my account	16

Appendix II

Story 01: Viewing items/products page.

Scenario 01: Verify that admin and employee can view items/products page.

Given [user is logged in as admin or employee]

When [admin or employee is on the website]

Then [the products/items databases will be viewable]

Scenario 02: Verify that IT person doesn't see item/product page.

Given [user is not logged in as admin]

When [IT person is logged in]

Then [admin/employee database will be viewable]

And [product/item database will not be accessible]

Story 02: Add a product.

Scenario 01: Verify that the admin can add a product.

Given [user is logged in as admin]

Then [product and items database will be viewable]

And [admin clicks on "Add product"]

Then [empty form will be displayed]

When [admin fills out the form]

And [admin clicks on add product]

Then [confirmation message is displayed]

When [admin clicks on "Confirm" button]

Then [product is added to product database]

Scenario 02: Verify that employees and IT person can't add product.

Given [user is not logged in as admin]

When [user logged in is employee]

Then [product database will be viewable]

And ["Add product will not be available]
When [user logged in is IT person]
Then [admin/employee database will be viewable]
And ["Add product" won't be found]

Story 03: Edit a product.

Scenario 01: Verify that admin can edit a product.

Given [user is logged in as admin]
When [admin views the product database]
Then [admin clicks on a specific product]
And [admin views product details]
Then [admin clicks on "Edit product"]
And [form with product details displayed]
Then [admin changes value(s) from form]
And [admin clicks on "Save changes"]
Then [updated product details will be viewable]

Scenario 02: Verify that employee and IT person can't edit a product.

Given [user is not logged in as admin]
When [user is logged in as employee]
Then [employee views on the product database]
And [employee clicks on a specific product]
Then ["Edit product" will not be available]
When [user is logged in as IT person]
Then [admin/employee database will be viewable]
And ["Edit product" won't be found]

Story 04: Remove a product.

Scenario 01: Verify that admin can delete a specific product.

Given [user is logged in as admin]
When [admin views the product database]
Then [admin clicks on a specific product]
And [admin views product details]
Then [admin clicks on “Delete product”]
And [confirmation message pops up]
Then [admin clicks on “Delete product” to confirm]
And [admin views the product database]

Scenario 02: Verify that employee and IT person can’t delete a product.

Given [user logged in is not admin]
When [user logs in as employee]
Then [employee views the product database]
And [employee clicks on a specific product]
Then [“Delete product” is not accessible]
When [user is logged in as IT person]
Then [admin/employee database will be viewable]
And [“Delete product” won’t be found]

Story 05: Add an item.

Scenario 01: Verify that admin can add an item.

Given [user is logged in as admin]
Then [item database will be viewable]
And [admin clicks on “Add item”]
Then [empty form will be displayed]
When [admin fills out the form]

And [admin clicks on add item]
Then [confirmation message is displayed]
When [admin clicks on “Confirm” button]
Then [product is added to item database]

Scenario 02: Verify that employee and IT person can’t add item.

Given [user is not logged in as admin]
When [user logged in is employee]
And [“Add item will not be available”]
When [user logged in is IT person]
Then [admin/employee database will be viewable]
And [“Add item” won’t be found]

Story 06: Edit an item.

Scenario 01: Verify that admin can edit an item.

Given [user is logged in as admin]
When [admin views the item database]
Then [admin clicks on a specific item]
And [admin views item details]
Then [admin clicks on “Edit item”]
And [form with item details displayed]
Then [admin changes value(s) from form]
And [admin clicks on “Save changes”]
Then [updated item details will be viewable]

Scenario 02: Verify that employee and IT person can’t edit an item.

Given [user is not logged in as admin]
When [user is logged in is employee]
Then [employee views the product database]

And ["Edit item" will not be found]
When [user is logged in as IT person]
Then [admin/employee database will be viewable]
And ["Edit item" won't be found]

Story 07: Remove an item.

Scenario 01: Verify that admin can remove an item.

Given [user is logged in as admin]
When [admin views the item databases]
Then [admin clicks on a specific item]
And [admin views item details]
Then [admin clicks on "Delete item"]
And [confirmation message pops up]
Then [admin clicks on "Delete item" to confirm]
And [admin views the item database]

Scenario 02: Verify that employee and IT person can't delete a product.

Given [user logged in is not admin]
When [user logs in as employee]
Then [employee views the product database]
And ["Delete item" is not found]
When [user is logged in as IT person]
Then [admin/employee database will be viewable]
And ["Delete item" won't be found]

Story 08: Search products and items

Scenario 01: Verify that admin and employee can search through products and items.

Given [user logged in as admin or employee]
Then [user views product/item databases]

And [user clicks on textbox to search specific product(s)/item(s)]

Then [user types to search for existing product or item name]

And [user clicks "Search button"]

Then [user views item(s)/product(s) results from search]

Scenario 02: Verify that IT person can't search through items and products database.

Given [user logged in is not admin]

When [user is logged in as IT person]

Then [admin/employee database will be viewable]

And [product/item database won't be accessible]

Story 09: Viewing notifications.

Scenario 01: Verify that admin and employee can view notifications.

Given [user logged in as admin or employee]

Then [user views product/item databases]

Then [notification database will be displayed]

When [every time product/item page reloads]

And [system finds items/products low on stock]

And [system find item/products close to expiration date]

Scenario 02: Verify that employee and IT person do not receive notifications.

Given [user logged in is IT person]

Then [employee/admin database will be accessible]

And [notification database will not be accessed]

Story 10: Editing a Product's or Item's Quantity.

Scenario 01: Verify that admin and employee can edit a product's quantity or item's quantity.

Given [user is logged in as admin or employee]

When [admin/employee views the item/product database]

Then [admin/employee clicks on a specific item/product]

And [admin/employee views item details]

Then [admin enter the amount of product or items used]

And [admin clicks on "Save changes"]

Then [updated item/product details will be viewable]

Scenario 02: Verify that IT person can't edit the quantity of item or product.

Given [user is not logged in as admin/employee]

When [user is logged in as IT person]

Then [admin/employee database will be viewable]

And ["Edit Quantity" won't be found]

Story 11: Viewing all users

Scenario 01: Verify that IT specialist can view users page.

Given [user is logged in as IT specialist]

When [IT specialist is on the website]

Then [user database will be viewable]

Scenario 02: Verify that employee doesn't see user page.

Given [user is not logged in as IT specialist]

When [admin or employee is logged in]

Then [items and products databases will be viewable]

And [user database will not be accessible]

Story 12: Adding a user.

Scenario 01: Verify that IT specialist can add new user.

Given [user is logged in as IT specialist]
Then [users database will be viewable]
And [IT specialist clicks on “Add User”]
Then [empty form will be displayed]
When [IT specialist fills out the form]
And [IT specialist clicks on add user]
Then [confirmation message is displayed]
When [IT specialist clicks on “Confirm” button]
Then [user is added to user database]

Scenario 02: Verify that admin and employee can’t add new users.

Given [user is not logged in as IT specialist]
When [user is logged in as admin or employee]
Then [product and items databases will be viewable]
And [“Add User” won’t be found]

Story 13: Editing a user’s information.

Scenario 01: Verify that IT specialist can edit a user.

Given [user is logged in as IT specialist]
When [IT specialist views the user’s database]
Then [IT specialist clicks on a specific user]
And [IT specialist views user’s details]
Then [IT specialist click on “Edit User”]
And [form with user’s details displayed]
Then [IT specialist changes value(s) from form]
And [IT specialist clicks on “Save changes”]

Then [updated user's details will be viewable]

Scenario 02: Verify that admin and employee can't edit a user.

Given [user is not logged in as IT specialist]

When [user is logged in is employee or admin]

Then [user views the product and item database]

And ["Edit User" will not be found]

Story 14: Remove a user.

Scenario 01: Verify that IT specialist can remove a user.

Given [user is logged in as IT specialist]

When [IT specialist views the user databases]

Then [IT specialist clicks on a specific user]

And [IT specialist views user's details]

Then [IT specialist clicks on "Delete user"]

And [confirmation message pops up]

Then [IT specialist clicks on "Delete user" to confirm]

And [IT specialist views the item database]

Scenario 02: Verify that employee and admin can't delete a user.

Given [user logged in is not IT specialist]

When [user logs in as employee or admin]

Then [employee or admin views the product and items database]

And ["Delete item" is not found]

Story 15: Log in.

Scenario 01: Verify that users can log in.

Given [user has an account created]

When [enter credentials]

Then [user can access their accounts]

Story 16: Log out.

Scenario 01: Verify that users can log out.

Given [user is logged in]

When [user clicks on “Sign out”]

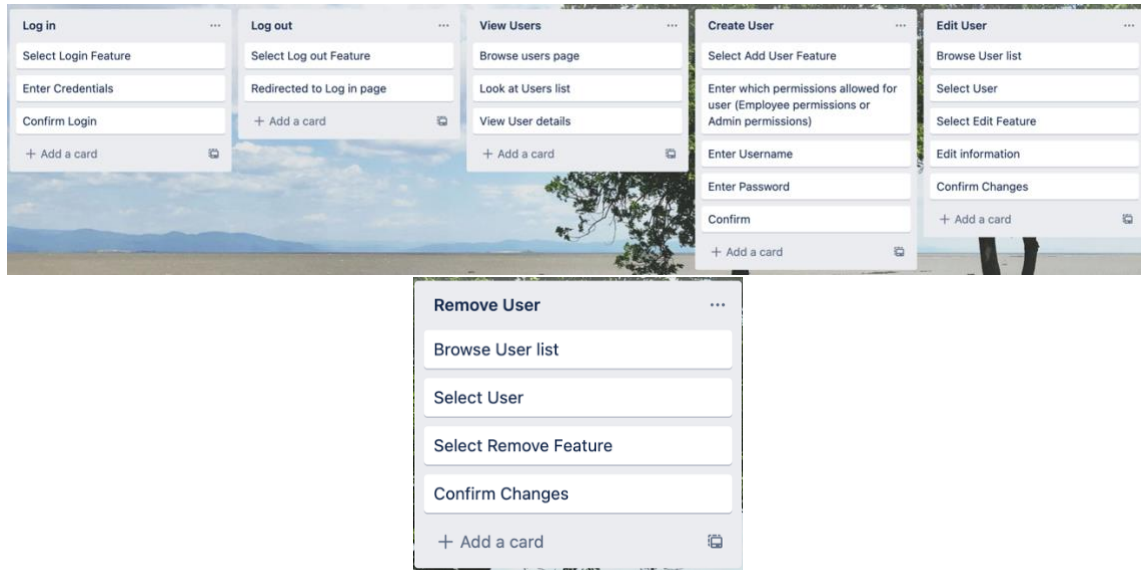
Then [user views the sign in page]

And [user is logged out of their account]

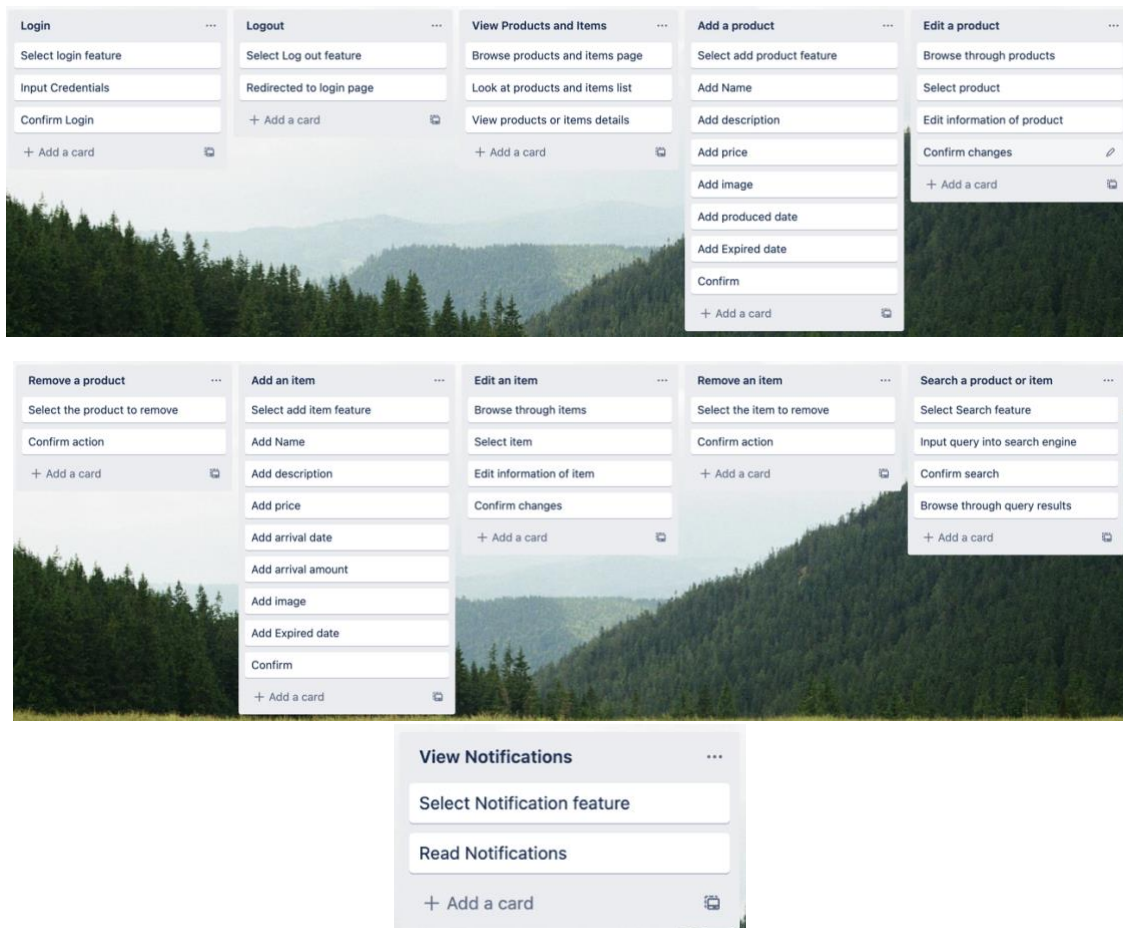
Appendix III

Story Map

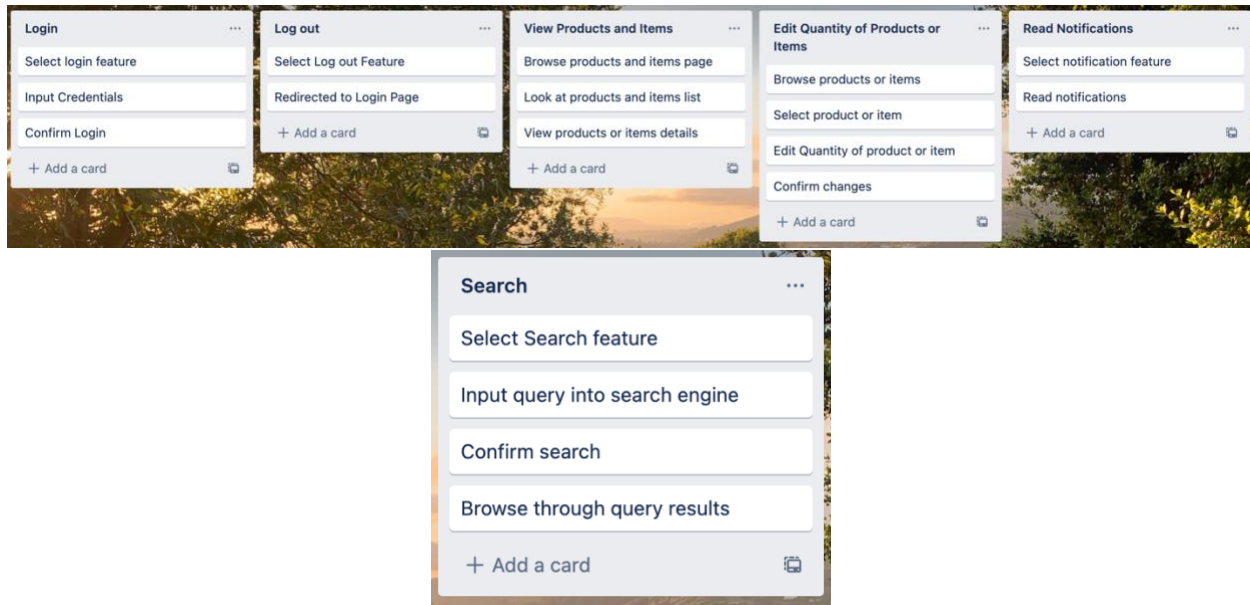
IT Control



Admin Control



Employee Control



Reason For Choosing Trello

After considering various tools and recommendations, our team decided to use Trello to map our user stories. One of the main reasons for this choice was the fact that our teacher had introduced Trello in our class materials. Additionally, the software has a user-friendly interface that is easy to set up and navigate. The ability to customize the workspace and boards was another advantage, as it allowed us to quickly identify and access different boards. We were also able to easily share the boards with our team members, who could work on them remotely. Lastly, the free version of Trello includes up to 10 boards, which was sufficient for our needs. Overall, Trello was a great choice for our team due to its simplicity, customization options, and ease of sharing.

References

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<https://trello.com/b/GILhKhY>

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Work Cited