

Honey Buzz

-ecommerce

IOD Capstone Project - Presented by Saki Ajiro



Overview

1. Introduction of the project
2. Product Description
3. Project planning
4. Testing Strategy
5. End-to-End solution
6. References



1. Introduction of the project

Purpose:

1. The demand for ecommerce keeps growing as more and more customers find it handy to shop online and handy to set up ecommerce is sought after by small businesses and startups.
2. This application allows businesses and startups to sell their products online more easily and allow customers to shop online easily.
3. The desired state is small businesses and startups can open their own online shops easily with no technical knowledge.



1. Introduction of the project

E-Commerce industry value chain:

1. Business buys products from suppliers or manufacture their own.
2. Post their products on the online shop, maintain the product data.
3. Create a lead to pull customers to the shop.
4. Get customers to sign up and maintain the user data.
5. User place an order online
6. Business deliver the products to the customer.
7. Stock deducted.



1. Introduction of the project

Stakeholders:

1. Business owners, sole traders, startups
2. Customers of the online shop



1. Introduction of the project

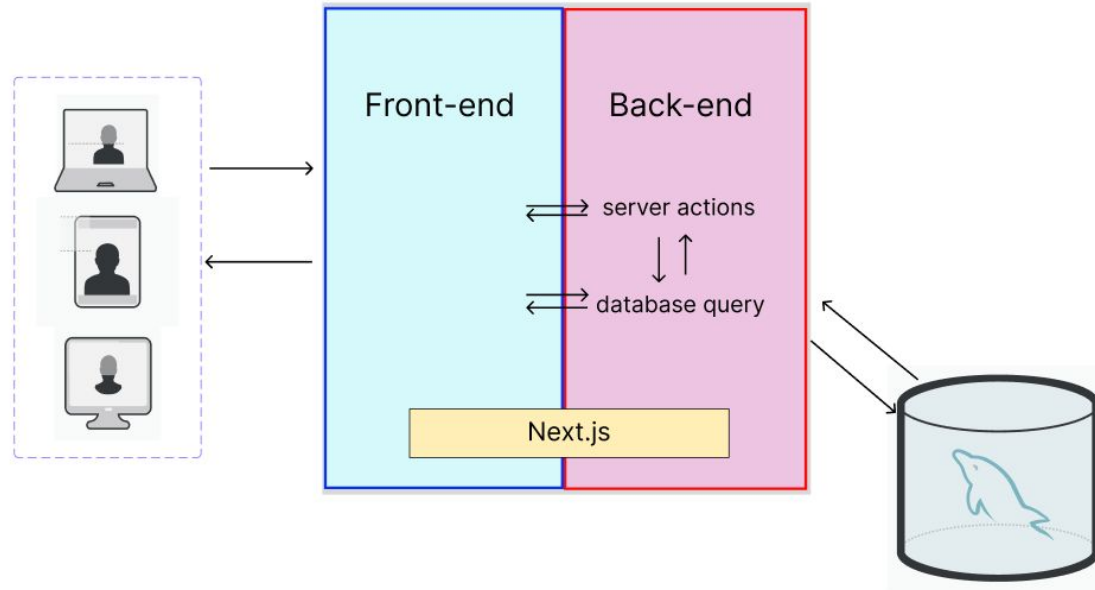
-Stakeholders

Why do they care and what is their expectation?

1. Business owners need a platform to trade their product online 24/7. They expect an ecommerce platform to be maintained easily and efficiently.
2. Customers want to see more products available online and expect 24/7 availability.

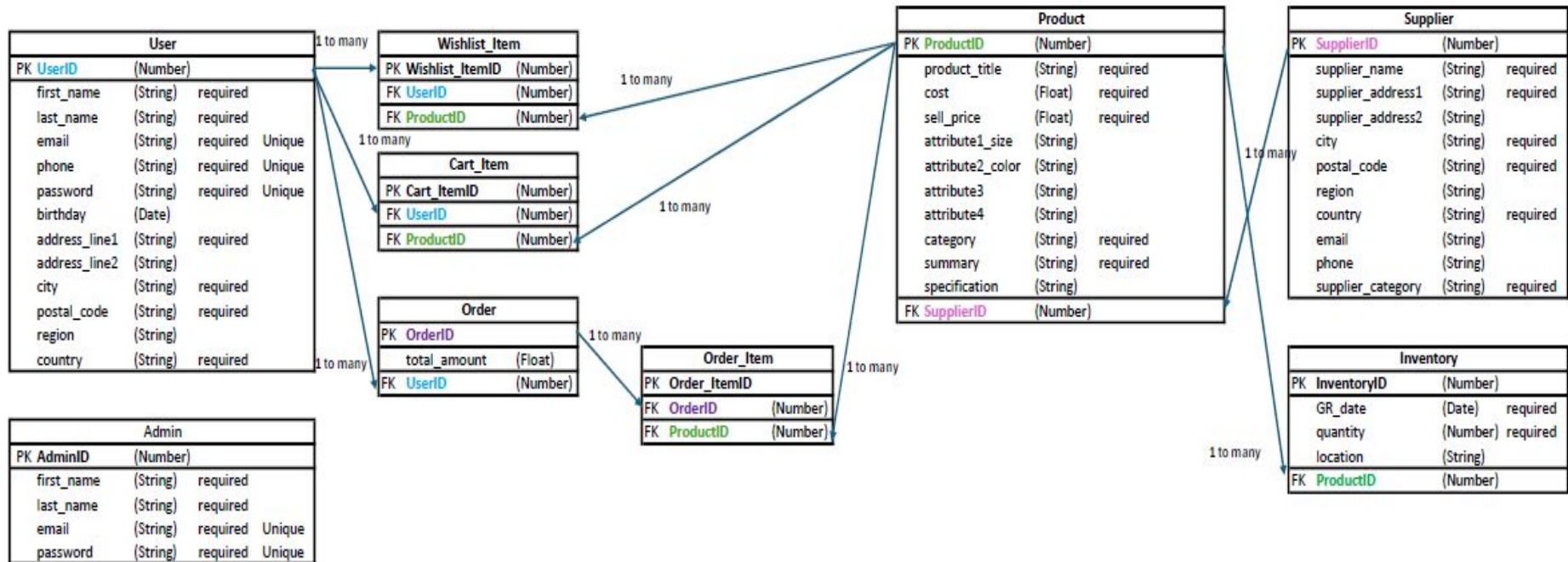
2. Product Description

- Architecture Diagram



2. Product Description

- Database Design



2. Product Description

- User Stories

<USER>

#	User Story Title	User Story Description	Priority	Additional Notes
1	Sign Up	As a user, I want to be able to sign up so that I can use the online shop.	high	
2	Login	As a user, I want to be able to login so that I can use my saved details when I come back to the website.	high	
3	Wishlist	As a user, I want to be able to add items in <u>wishlist</u> so that I can consider them later on.	high	
4	Shopping cart	As a user, I want to be able to add items in cart so that I can continue shopping and proceed to checkout once shopping is done.	high	
... 5	Shipping address	As a user, I want to be able to use my saved address to <u>fill out shipping</u> address so that I don't have to enter the same info twice.	high	



2. Product Description

- User Stories

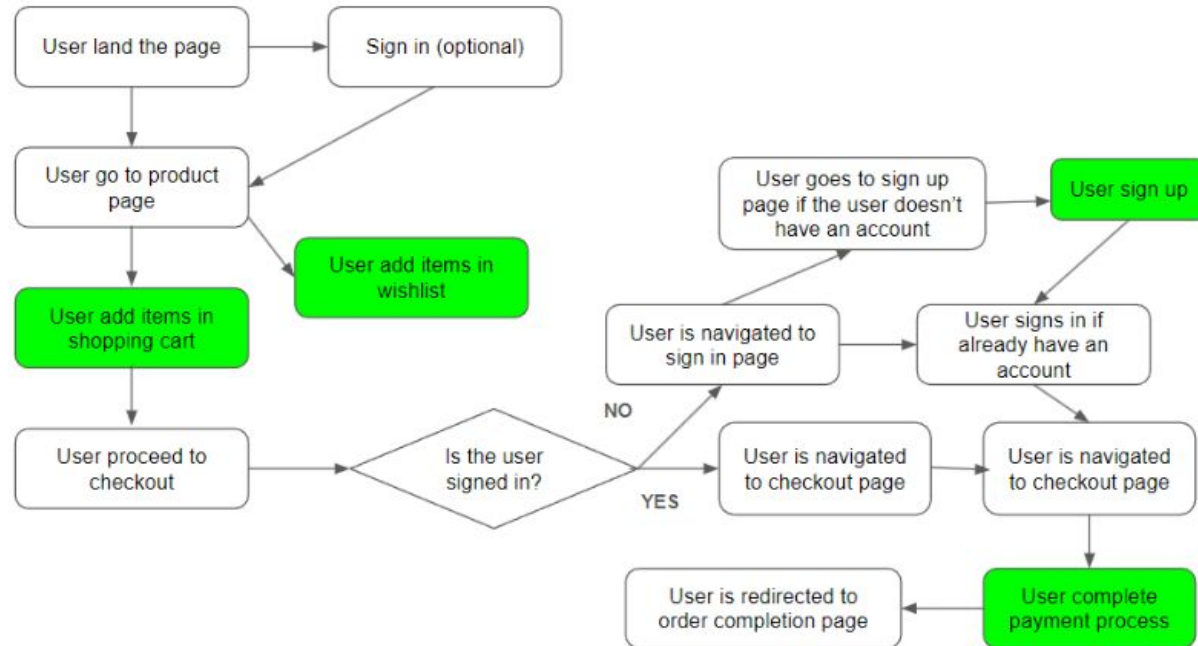
<ADMIN>

#	User Story Title	User Story Description	Priority	Additional Notes
1	Store business data	As a user, I want to be able to store products and supplier info in the database.	high	
2	Manipulate data	As a user, I want to be able to update/delete products and supplier info manually so that I can maintain the database up to date.	high	
3	Inventory check	As a user, I want to be able to keep the stock level of each product in check so that I can top up the stock before they become out of stock.	high	

2. Product Description

- User Flow

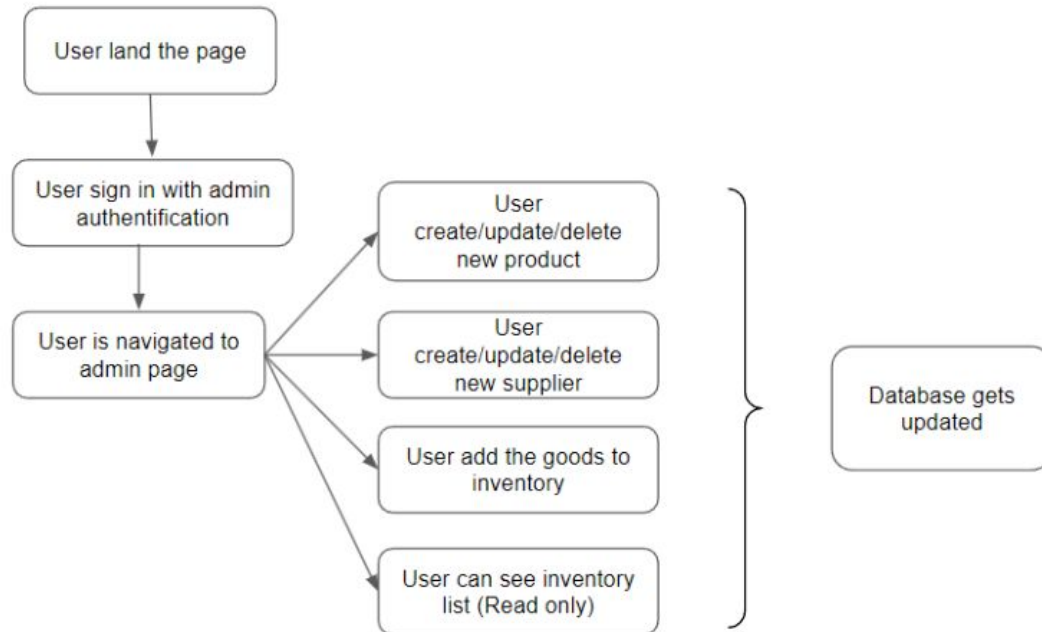
USER Perspective



2. Product Description

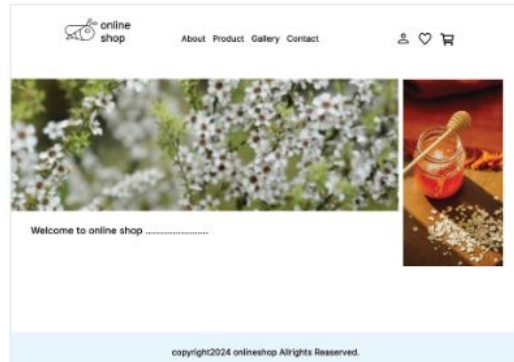
- User Flow

ADMIN Perspective



2. Product Description

- Wireframe Design(User)

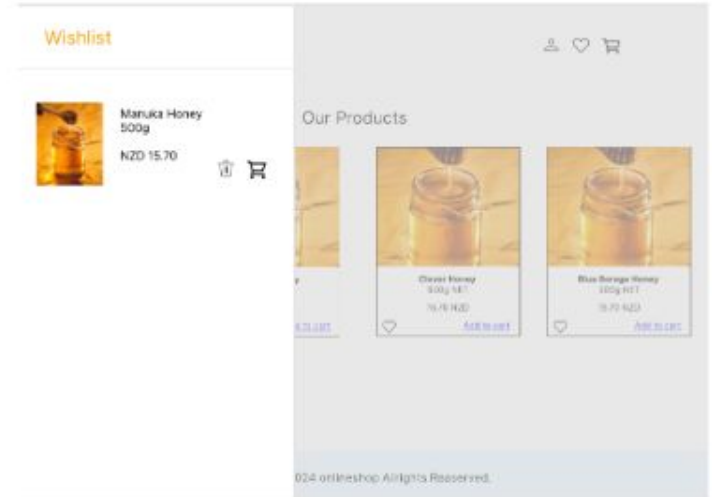
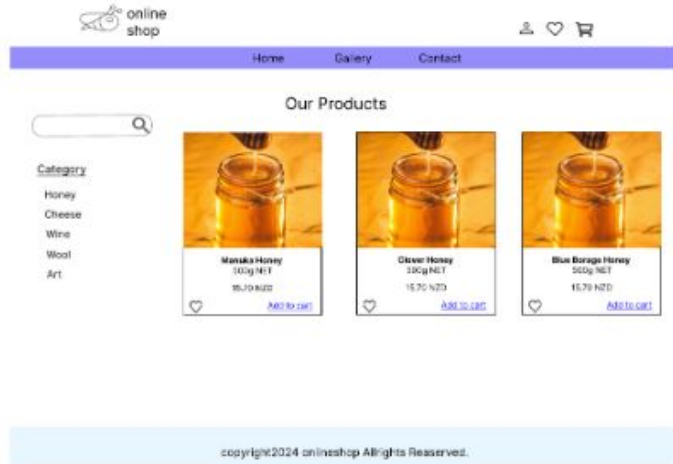


This wireframe shows a user registration form. At the top, there is a green bird icon and the text "SIGN UP" in green. Below this, there are ten input fields for user information, each with a label and an asterisk indicating it is required: "First Name*", "Last Name*", "Address_Line1*", "Address_Line2", "City*", "Postal Code*", "Region", "Country*", "Phone*", and "Email*". Below the "Email*" field is a "Password*" field. At the bottom of the form, there is a link that says "already have an account? Sign In" and a blue button with the text "GO".

This wireframe shows a user login form. At the top, there is a blue bird icon and the text "LOGIN" in blue. Below this, there are two input fields: "Email*" and "Password*". Below the "Password*" field is a link that says "Don't have an account? Sign up". At the bottom of the form, there is a blue button with the text "LOGIN".




2. Product Description

- Wireframe Design(User)




2. Product Description

- Wireframe Design(User)




Shopping Cart



Manuka Honey 500g
Manuka (*Leptospermum scoparium*) is a unique evergreen tree, indigenous to New Zealand. Blossoms and the intensely scented white flowers which bloom in summer. Manuka honey is a lovely dark colour with a stronger, more intense flavour and an unique aroma.

NZD 15.70

Quantity



Clover Honey 500g
Clover honey is one of New Zealand's most loved honeys. It is created by foraging bees, collecting nectar from the clover flowers. Our clover honey is produced from farms around the Bay of Plenty and Auckland districts, no more than 50kms from our home base.

NZD 10.50

Quantity

Proceed to checkout

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Order confirmation

Manuka Honey x 1	15.70 NZD
Clover Honey x 1	15.70 NZD
Total 31.40 NZD	

[Go back to prev page](#)

Shipping details

Address

First Name*

Last Name*

Address Line1*

Address Line2

City*

Region

Country*

Phone*

Email*

Next

2. Product Description

- Wireframe Design(User)

Order confirmation

Manuka Honey x 1	15.70 NZD
Clover Honey x 1	15.70 NZD
Total	
31.40 NZD	

[Go back to prev page](#)

Payment details

First Name*

Last Name*

Credit card no.*

Expiry date*

Security Code*

CompletePayment



Thank you!

We will get your order delivered as soon as we can.

Please don not hesitate to contact us at
xxxx@onlineshop.co.nz with any questions, suggestions
or your feedback!

[>>Go back to shop](#)



2. Product Description

- Wireframe Design(Admin)

OPERATIONS

CREATE

Product
Supplier

UPDATE/ DELETE

Product
Supplier

INVENTORY

Goods Receipt
Inventory List

Welcome Admin123!



Customer feedback



Inventory List

ProductID	Title	Quantity	Supplier name
1	Manuka Honey	1	manuka Limited
2	Clover Honey	100	clover corp.

OPERATIONS

CREATE

Product
Supplier

UPDATE/ DELETE

Product
Supplier

INVENTORY

Goods Receipt
Inventory List



Goods Receipt Entry

Goods Receipt Date *

Quantity*

Location of the goods

Product ID*

Add to Inventory



2. Product Description

- Wireframe Design(Admin)

OPERATIONS

CREATE
Product
Supplier

UPDATE/ DELETE

Product
Supplier

INVENTORY

Goods Receipt
Inventory List



Add New Product

Product Title*

Product Cost*

Sell Price*

Attribute1 (Size)

Attribute2 (Color)

Attribute3

Attribute4

Category*

Summary*

Specification

Image

Supplier ID

Create



Update/ Delete Product

OPERATIONS

CREATE
Product
Supplier

UPDATE/ DELETE

Product
Supplier

INVENTORY

Goods Receipt
Inventory List

Product ID

Edit

Delete

Product Title*

Product Cost*

Sell Price*

Attribute1 (Size)

Attribute2 (Color)

Attribute3

Attribute4

Category*

Summary*

Specification

Image

Supplier ID

Update

2. Product Description

- Wireframe Design(Admin)

OPERATIONS

CREATE
Product
Supplier

UPDATE/ DELETE

Product
Supplier

INVENTORY

Goods Receipt
Inventory List



Add New Supplier

Supplier Name*

Address_Line1*

Address_Line2

City*

Postal Code*

Region

Country*

Email

Phone

Category*

Create



Update/ Delete Supplier

OPERATIONS

CREATE
Product
Supplier

UPDATE/ DELETE

Product
Supplier

INVENTORY

Goods Receipt
Inventory List

Supplier ID

Edit

Delete

Supplier Name*

Address_Line1*

Address_Line2

City*

Postal Code*

Region

Country*

Email

Phone

Category*

Update



2. Product Description

- Out of Scope
- Real payment transaction
- User's profile management page
- Customer review functionality
- Security and data encryption
- Deployment



2. Product Description

- Non-functional requirements

- Reliability

- The security must be highly reliable(unfortunately this is out of scope though). Also the database has to be accurate and reliable to ensure the smooth business operation. Ideally, the uptime for the shopping platform should be close to 100% but less than 5% of downtime would not cause critical issues.

- Maintainability

- + Data normalisation
- + Github version control
- + Folder structure (database has its own separate folder, server actions and database queries are stored in a separate 'backend' folder.)

3. Project Planning

Project planning	Task	week 1 3 - 5/Jul	week 2 8 - 12/Jul	week 3 15 - 18/Jul	19-Jul
Documentation	Fill up template document			18-Jul	
	Application flow design		9-Jul		
	Architecture Diagram			18-Jul	
	User Story		10-Jul		
	Hi-Fi(ish) design(Wireframe)		9-Jul		
	Database logical/physical model	3-Jul			
	Testing steps			18-Jul	
	ReadMe			18-Jul	
	Slide			18-Jul	
	Next.js set up	4-Jul			Demo
	Sign up/ Login page/ user data creation		11-Jul		
	Header, Footer and Navigation	4-Jul			
	Wishlist (drawer)		11-12/Jul		
	Landing page			15-Jul	
	Product list page		11-Jul		
	Product detail page		11-12/Jul		
	Shopping cart page displaying all the products in the cart with ability for users to change quantities and delete items. Button to allow users to proceed to checkout from here.		12-Jul		
	Checkout page with autofill functionality for those who have registered the delivery address.		12-Jul		
	Payment page		14-Jul		
	Thank you page/ empty cart and move the data to order		14-Jul		
	CSS for all pages			15-Jul	
	Responsive			15-Jul	
	Create admin reg page		13-Jul		
	Create product & supplier page		10-Jul		
	Update/Delete product & supplier page		10-Jul		
	Goods receipt entry page		10-Jul		
	Inventory list		10-Jul		
Back-end	CRUD operations / server actions		10-16/Jul		
Database	Database table migrations	5-Jul			
	MySQL connection with Next.js		9-Jul		



4. Testing

- edge cases
- Mostly used `console.log` and developer tools in the browser to ensure it is getting the expected result.



5. End-to-end solution

- It does have the backbone and foundation to keep building up on with a lot of useful and practical functionality, however, in reality, it does require more vigorous security to protect user data, business data before it becomes usable. Also, a secure payment transaction is required.



6. References

Github: <https://github.com/Saki-1003/Capstone-Project>

Visual Studio Code

MySQL

Iconify

"@emotion/react": "^11.11.4",

"@emotion/styled": "^11.11.5",

"@mui/icons-material": "^5.15.21",

"@mui/material": "^5.15.21",

"dotenv": "^16.4.5",

"mysql2": "^3.10.2",

"next": "14.2.4",

"react": "^18",

"react-dom": "^18",

"sequelize": "^6.37.3",

"sequelize-cli": "^6.6.2"



DEMO