PotPoint

GitHub:
https://github.com/Evan-Wong-FSD/PotPoint-client
https://github.com/Evan-Wong-FSD/PotPoint-server

#3

Introduction

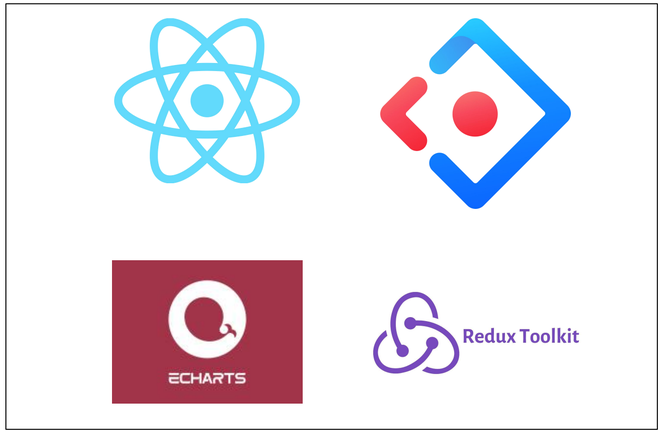
An online data analysis platform

- PotPoint is an online platform dedicated to assisting restaurants with data analysis.
- By analyzing operational data and utilizing AI technology, PotPoint effectively transforms restaurant performance into easily readable and clear business reports.
- This helps restaurant managers promptly understand the operational status of their establishment and make informed business decisions.

Tech stack

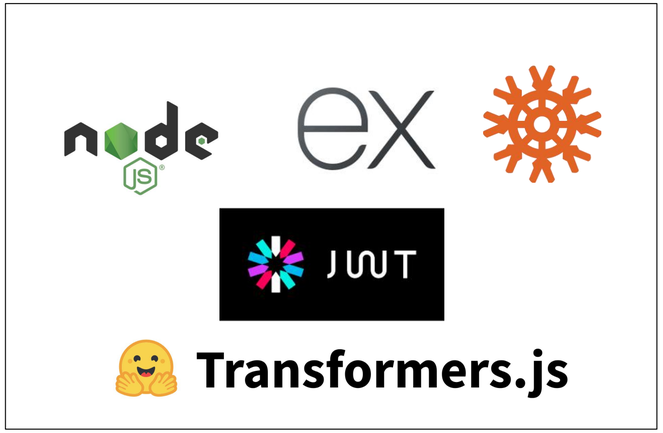
Front end

React, Ant Design, ECharts,
Redux Toolkit



Back end

Node.js, Express.js, PostgreSQL,
Knex, Transformers.js, JWT



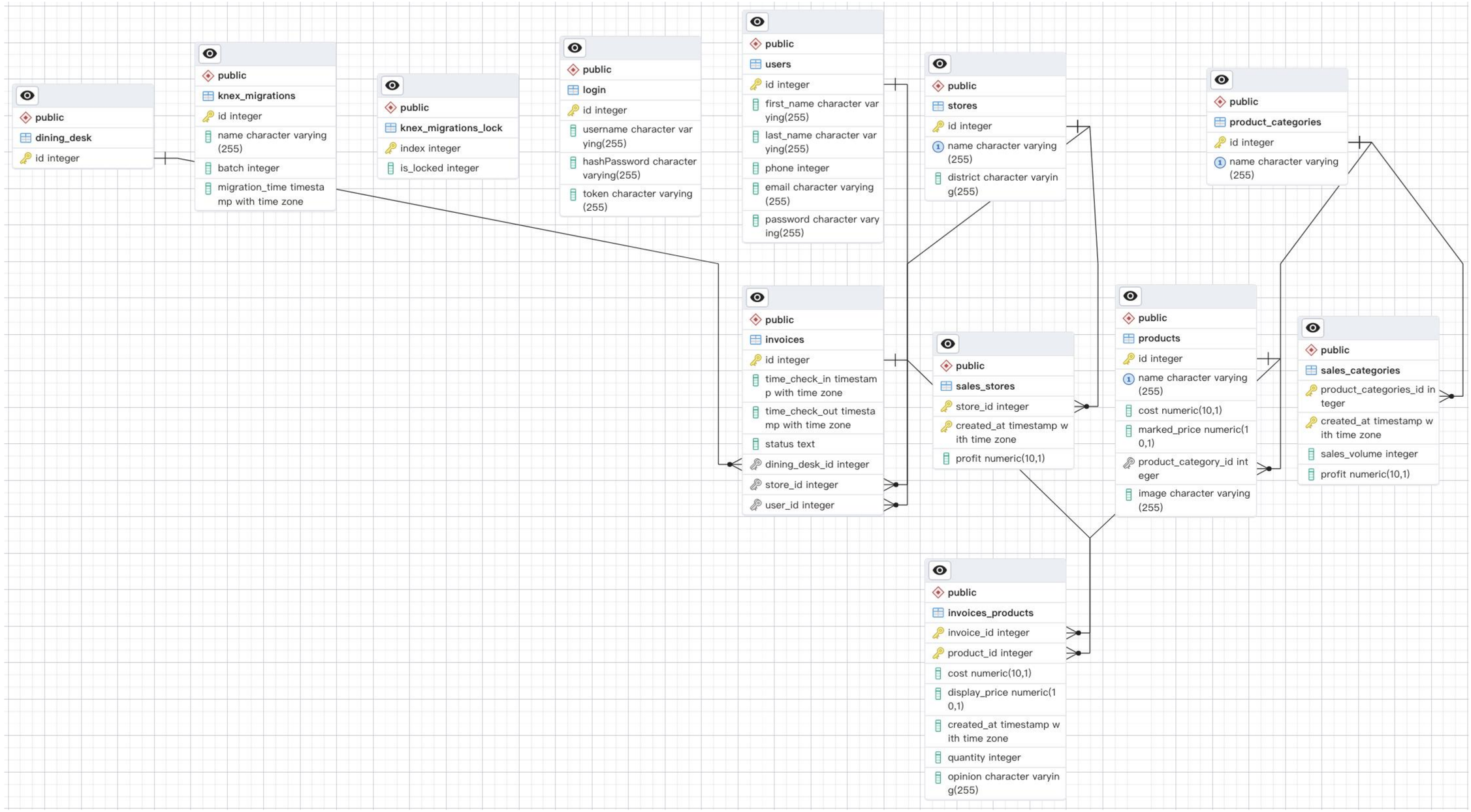
Ajax

Axios

DevOps

AWS (EC2, IAM), GitHub Actions

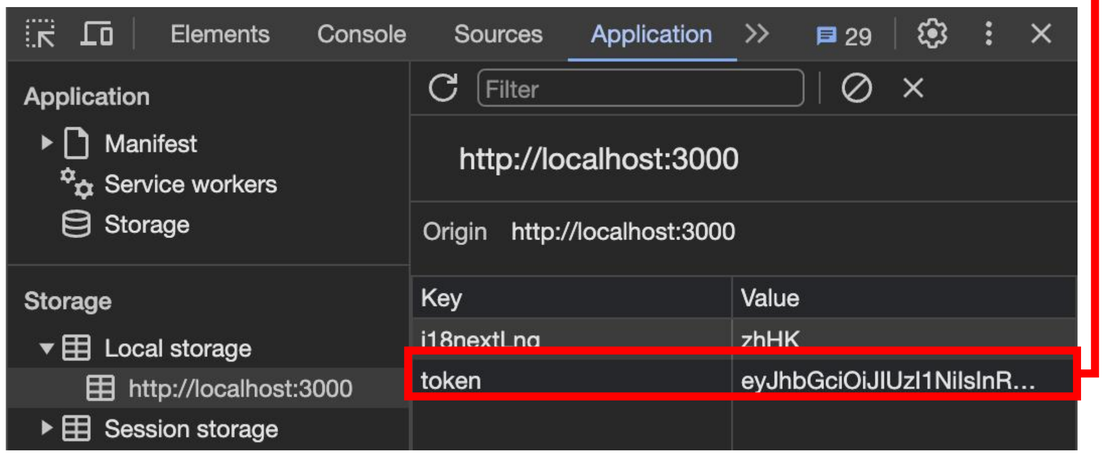
Entity Relationship Diagram (ERD)



Login

JSON Web Token (JWT)

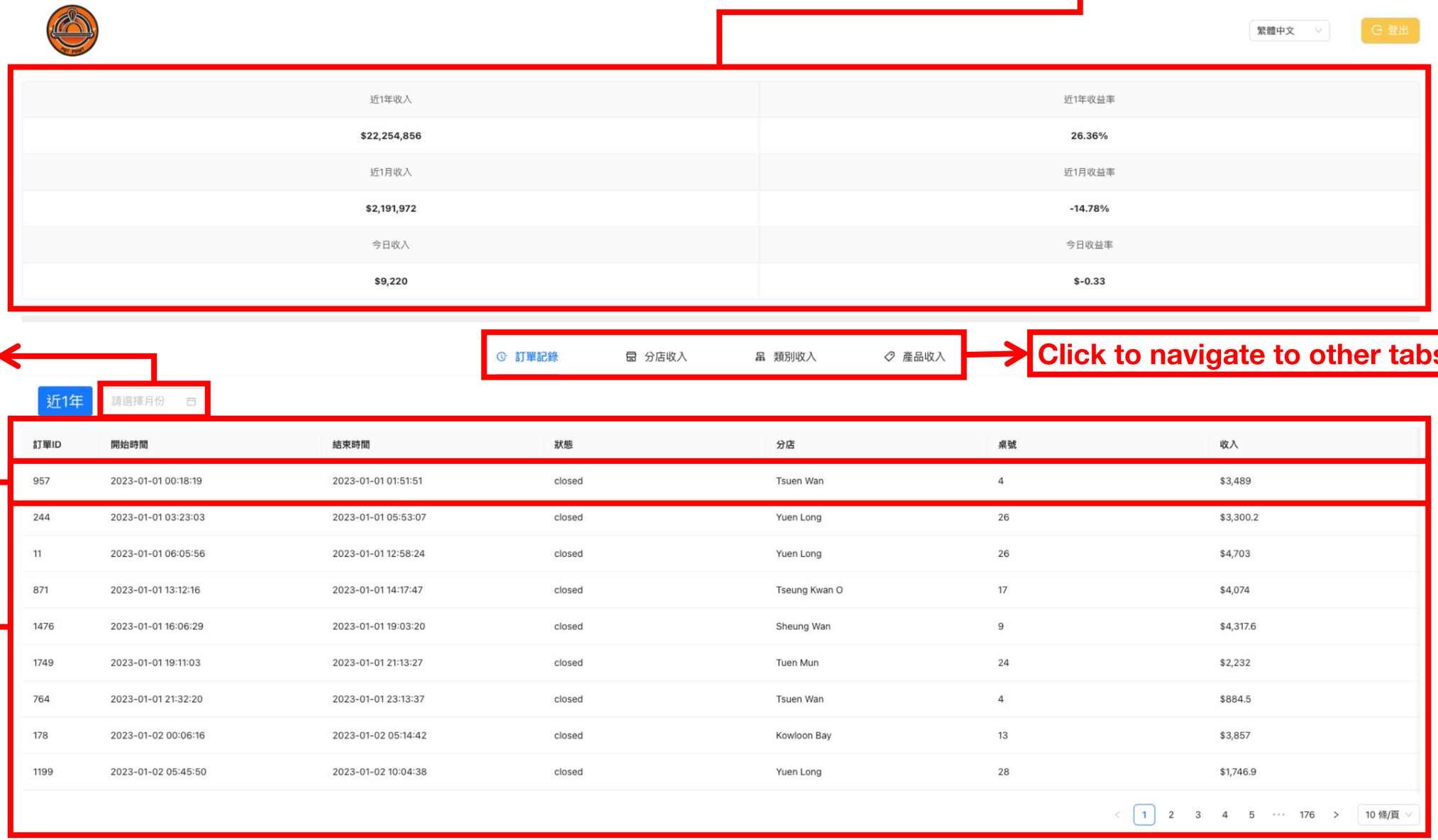
- Apply JWT for login.
- JWT is a secure and reliable method for transmitting information between web applications, widely used for purposes such as identity verification and authorization.
- After the initial login, the server would return a token, that would be stored in the browser's local storage for identification and automatic login in subsequent sessions.



The token for identification and automatic login

Dashboard – transaction records

Calculate the total revenue and profitability for different time periods, including: yearly, monthly, and daily



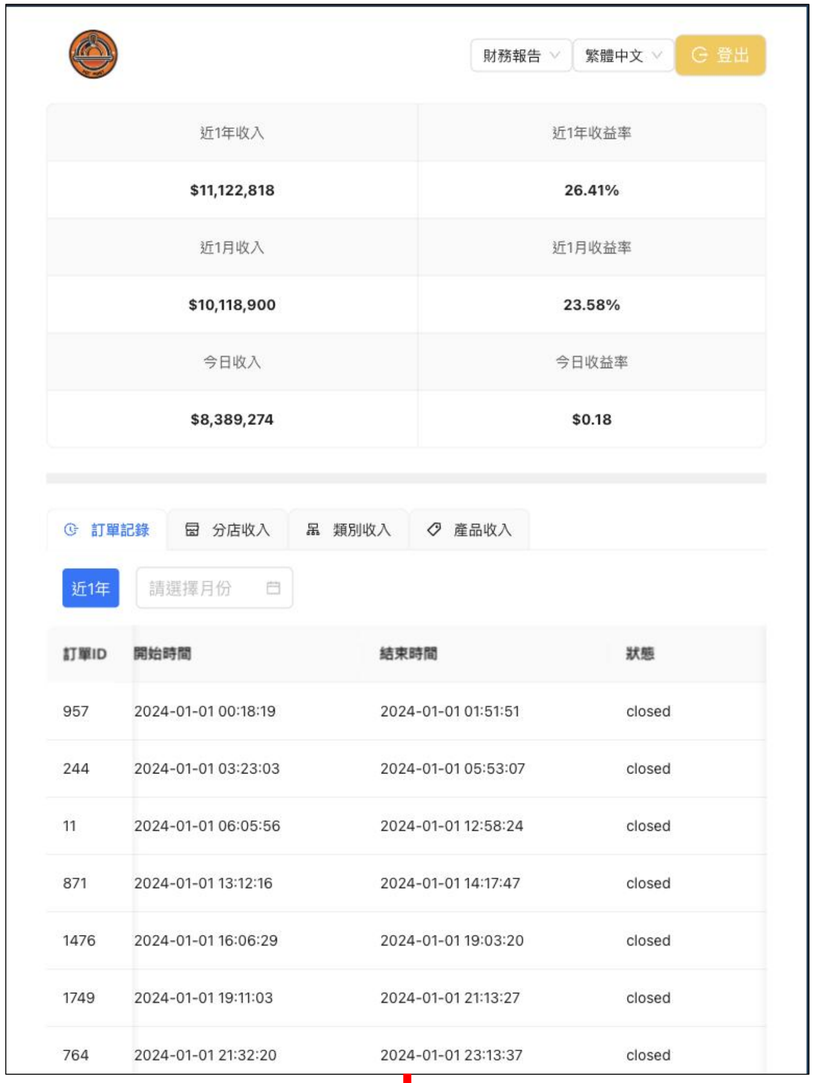
Customize time interval

Click to navigate to other tabs

Click to navigate to transaction details

Record detailed information for each transaction

Dashboard - transaction records (RWD)



Mobile's view

Tablet's view

Transaction details

財務報告 繁體中文 登出

Click to show customer review of the product

Items ordered

訂單明細

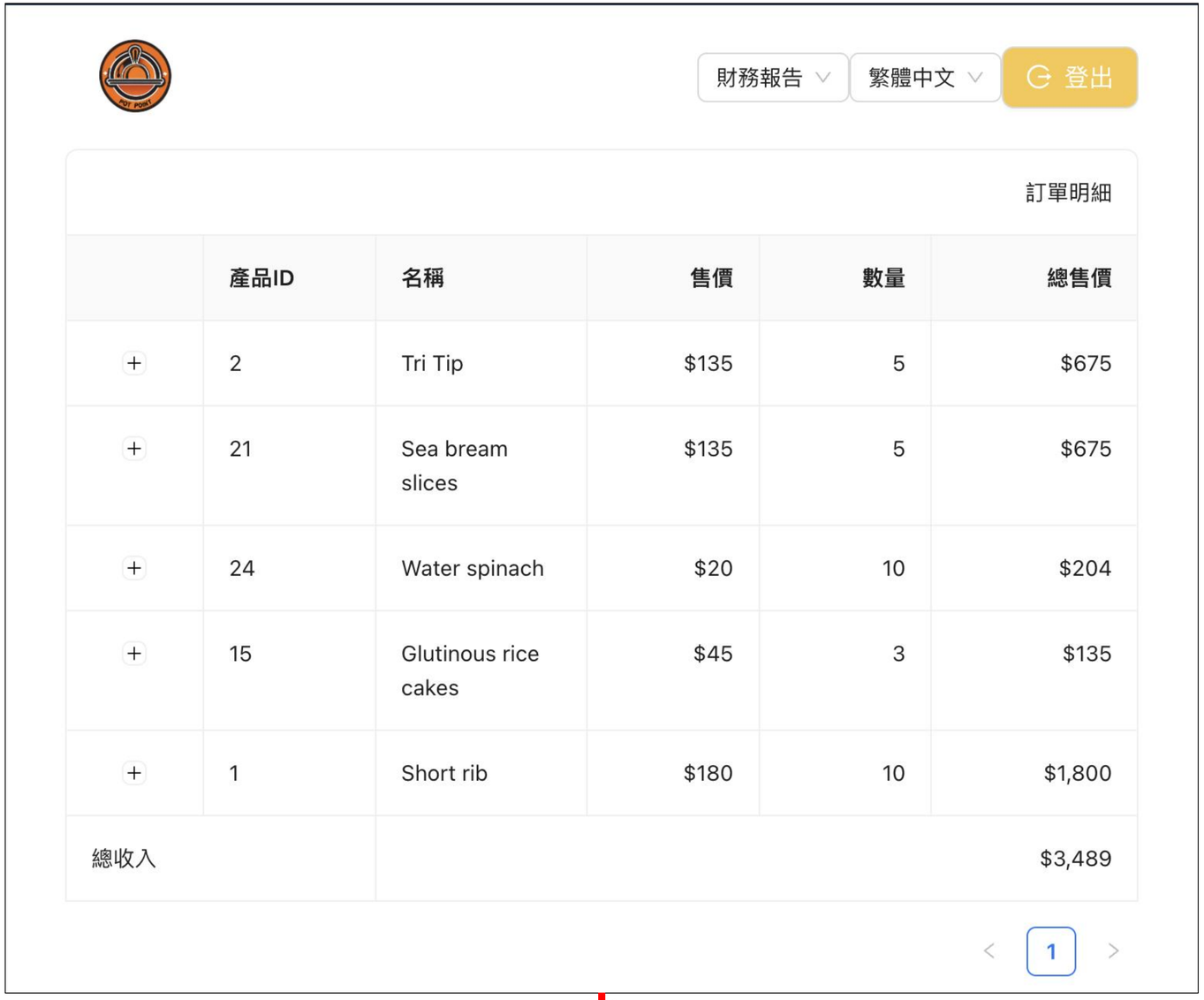
	產品ID	名稱	售價	數量	總售價
+	24	Water spinach	$20	3	$61
+	7	Chicken leg meat	$108	4	$432
+	20	Cod fish slices	$128	10	$1,280
+	17	Beer	$24	10	$240
+	4	Pork Belly	$192	6	$1,152
−	2	Tri Tip	$135	1	$135
意見: 三角肉有啲硬而且乾燥。					
總收入					$3,300

Customer reivew

1

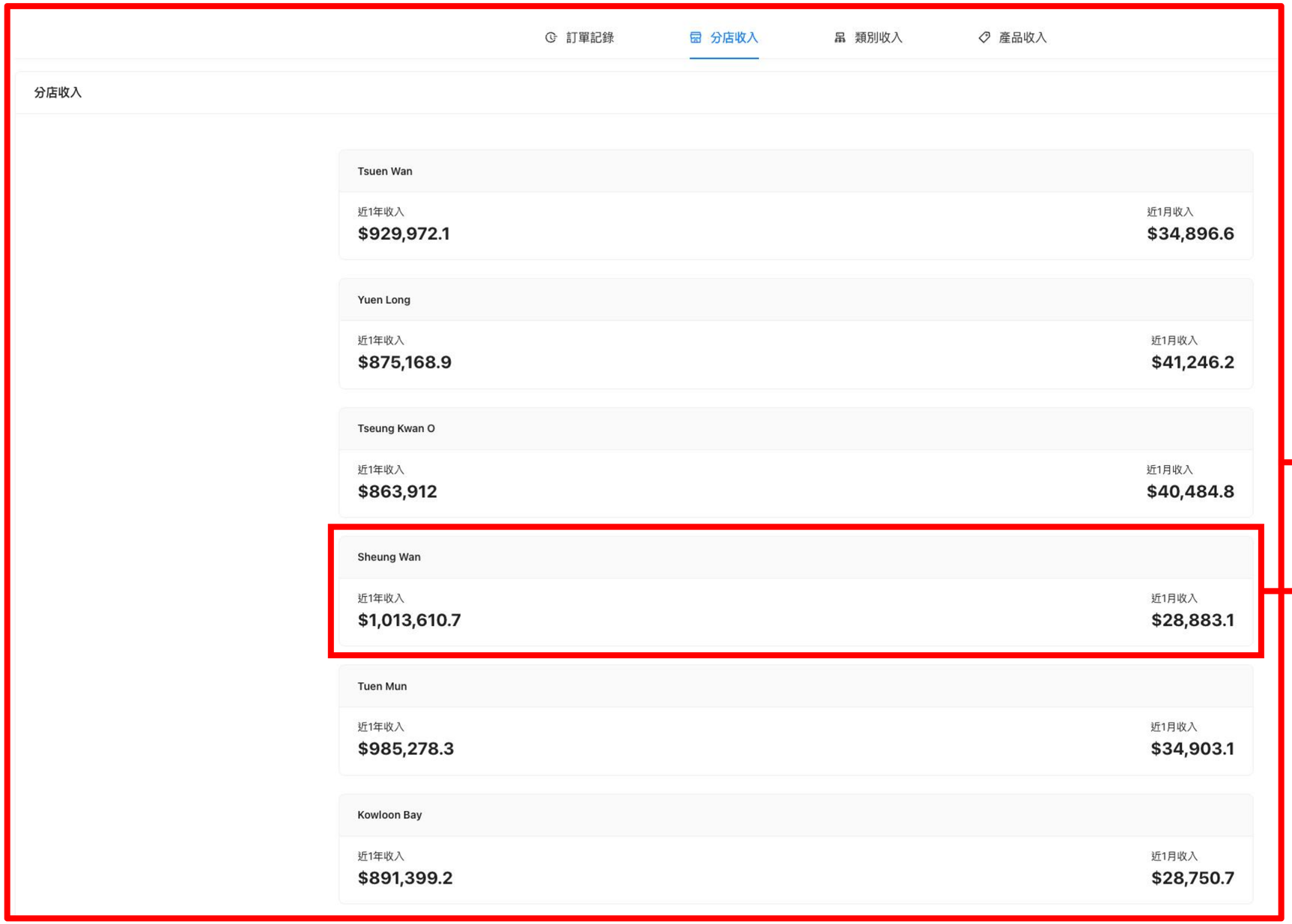
Transaction details (RWD)

Mobile's view



Tablet's view

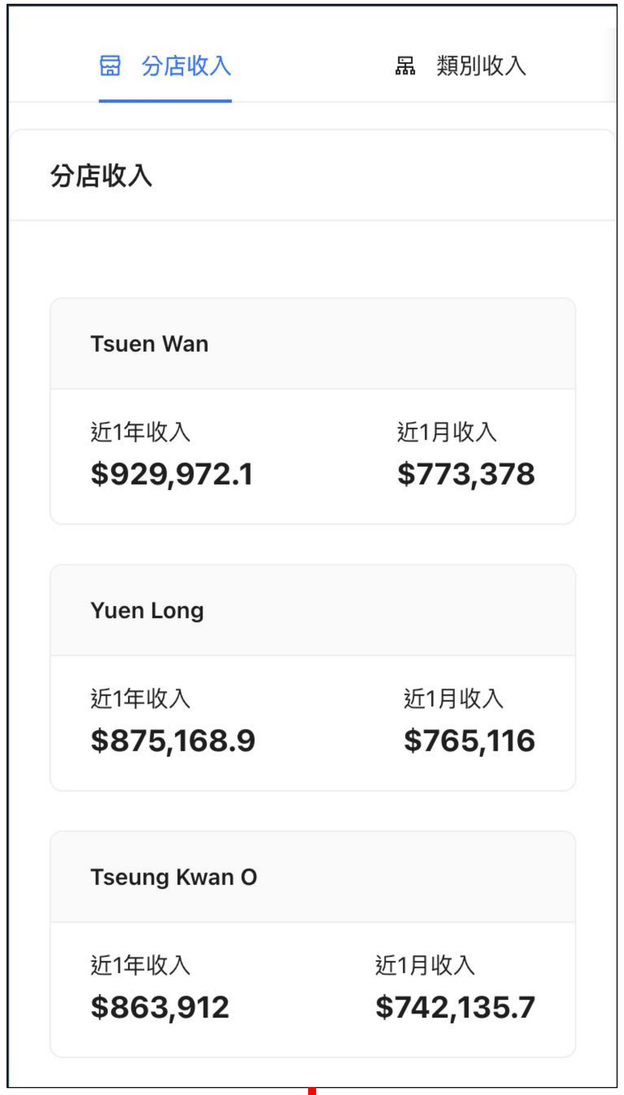
Dashboard - branch revenue



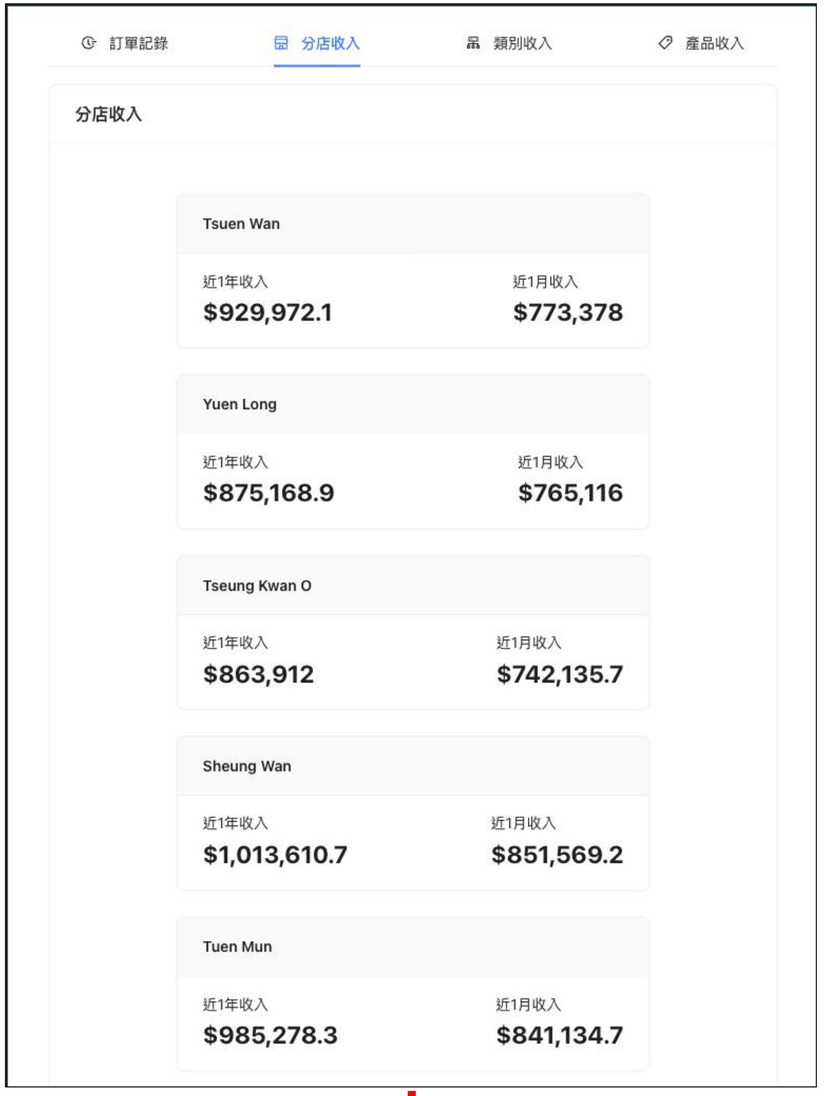
The revenue of each branch for the past year and the past month was recorded

Click to navigate to the business analysis of the branch

Dashboard – branch revenue (RWD)



Mobile's view

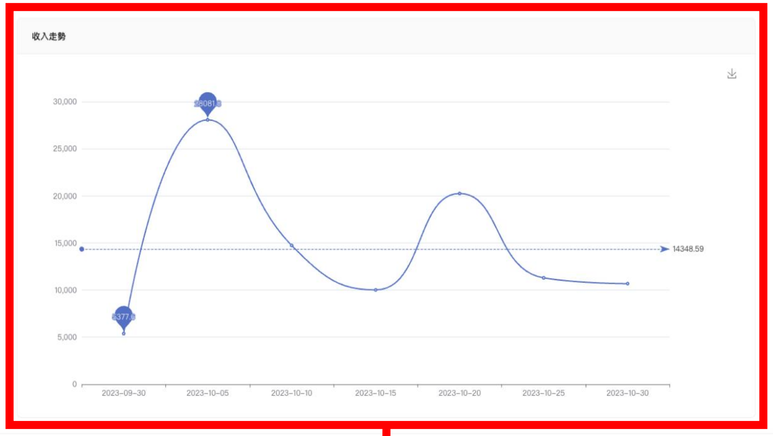


Tablet's view

Business analysis of the branch

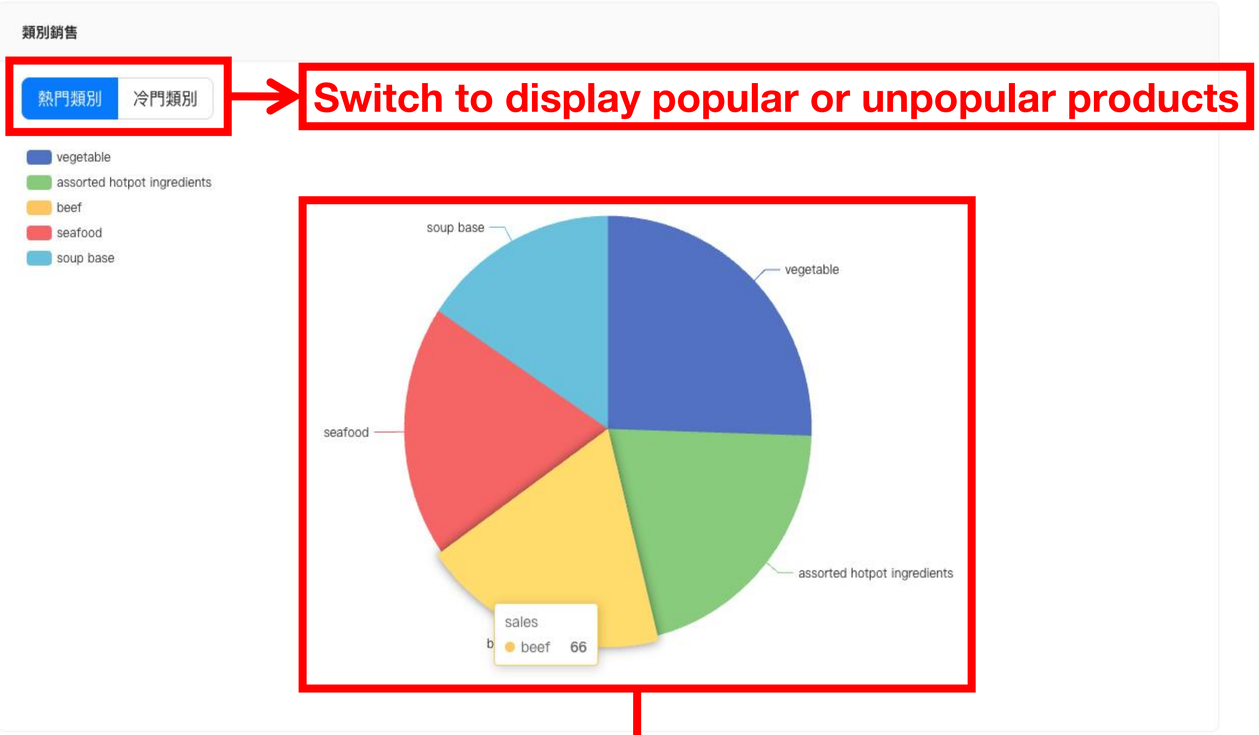
The revenue of the branch for the past year and the past month

Change the time intervals



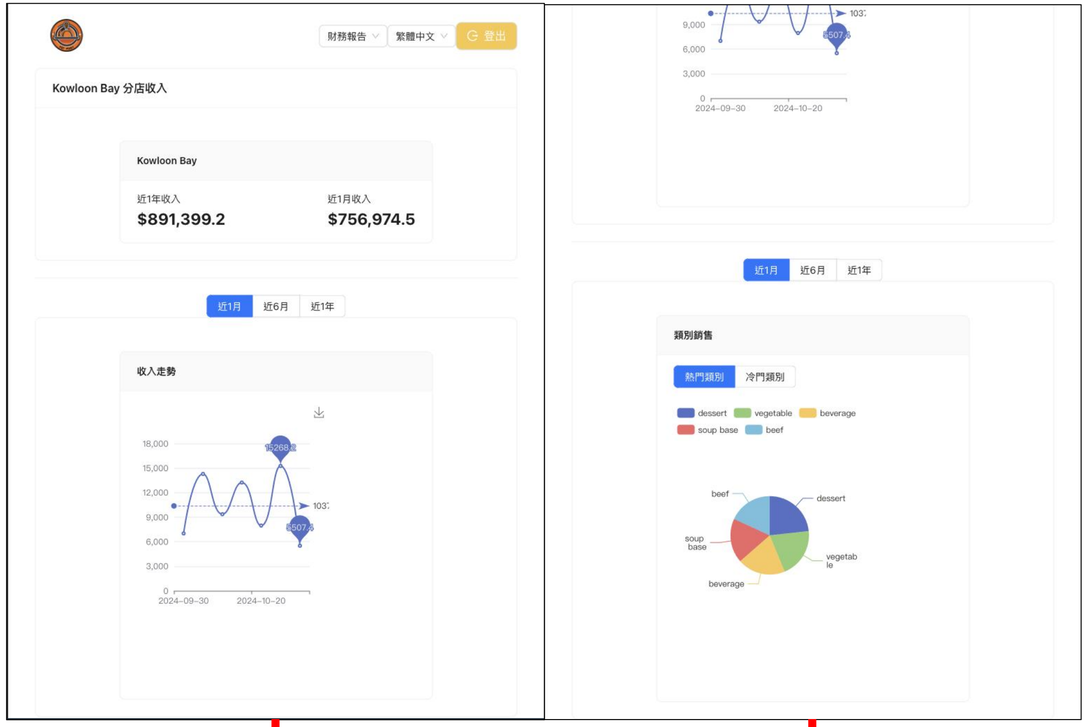
Display the revenue changes for the specified period

Switch to display popular or unpopular products



Display popular or unpopular products for the specified period

Business analysis of the branch (RWD)

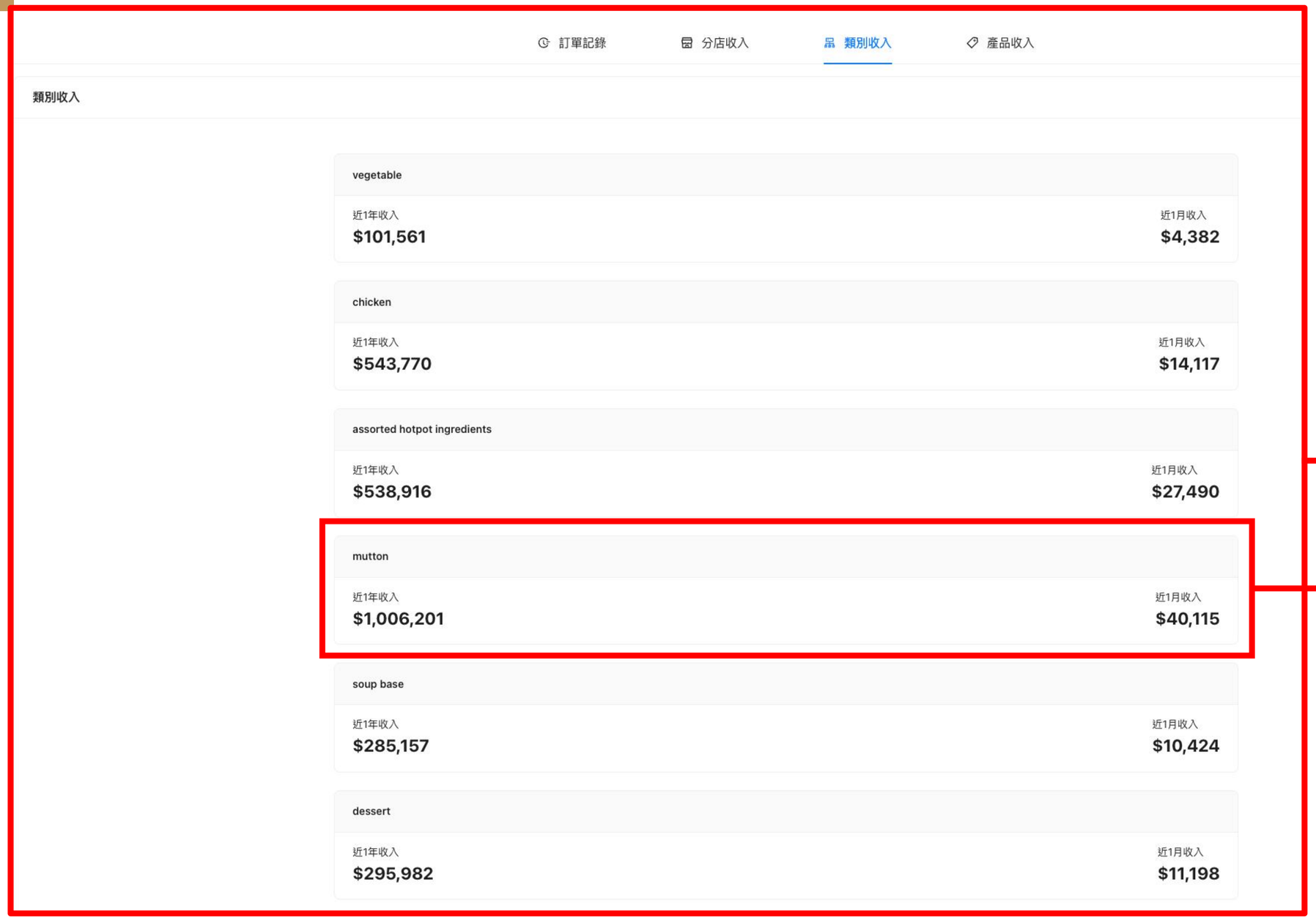


Mobile's view

Tablet's view

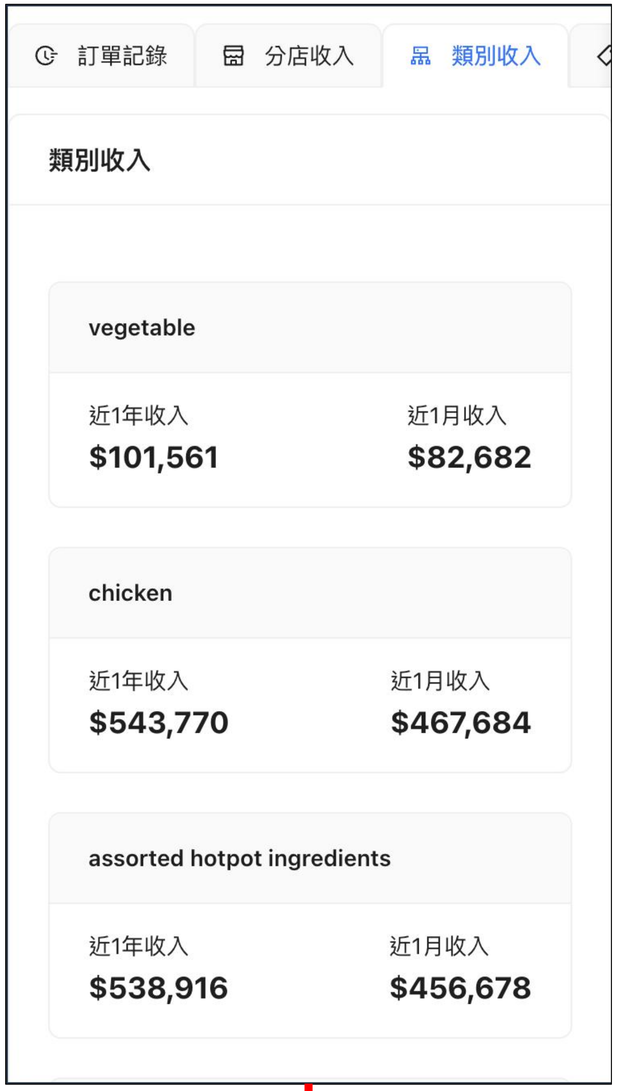
Dashboard – product category revenue

The revenue of each product category for the past year and the past month was recorded

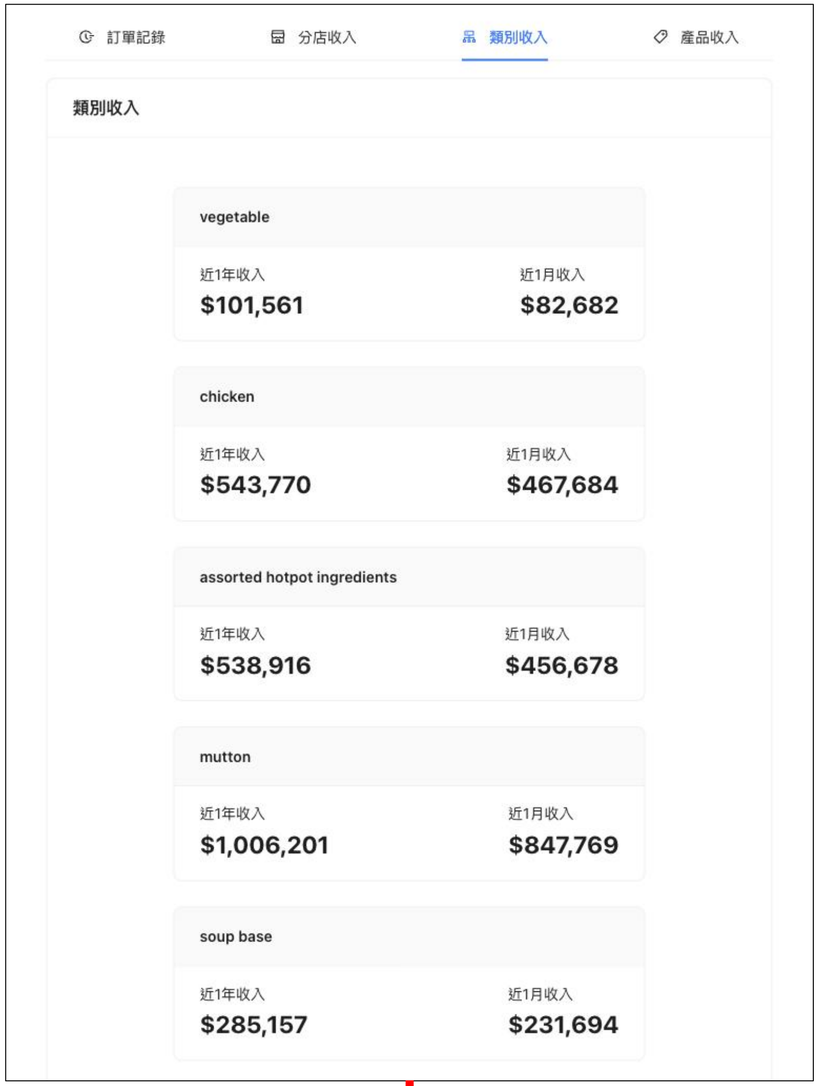


Click to navigate to the business analysis of the product category

Dashboard - product category revenue (RWD)

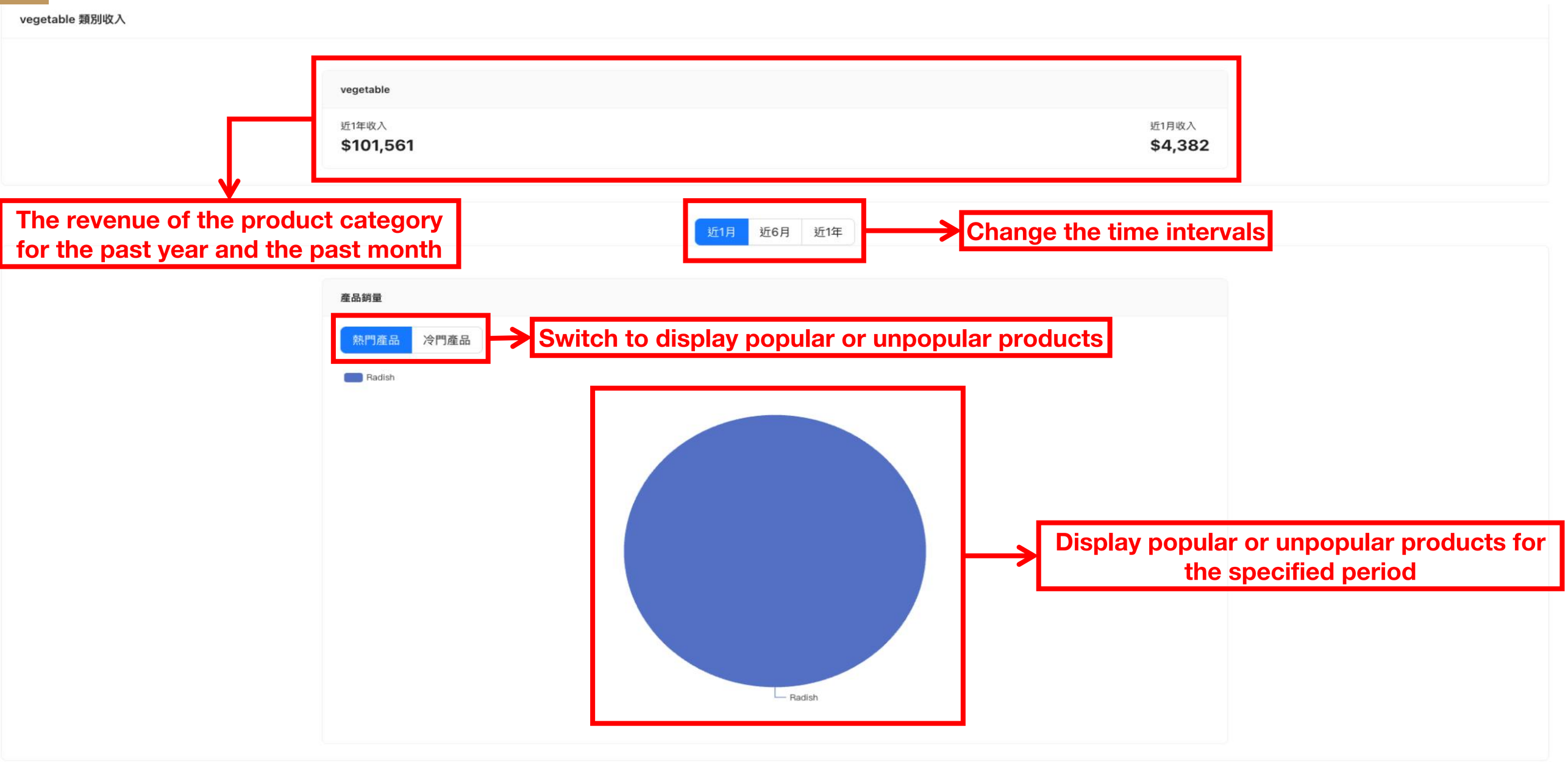


Mobile's view



Tablet's view

Business analysis of the product category revenue

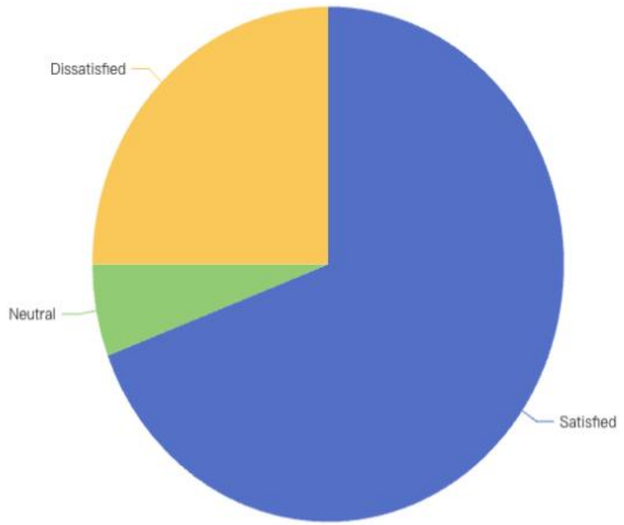


Business analysis of the product category revenue

顧客意見

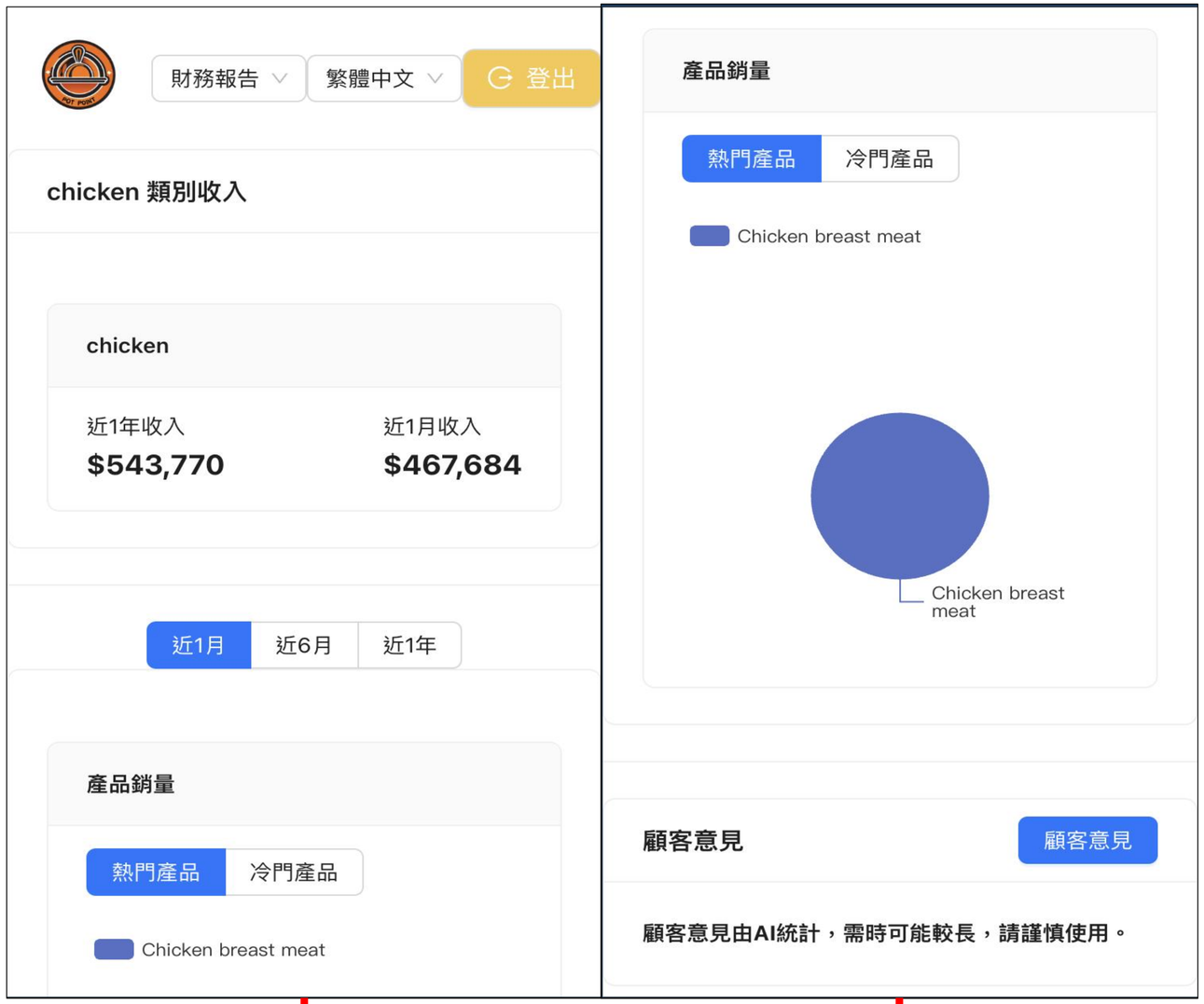
顧客意見

Satisfied (69.2%)
The radish taste is warm and clear, and it adds up to this dish.
Neutral (5.8%)
the radish is light.
Dissatisfied (25.0%)
Hollows are good, but they're better
Satisfied
Neutral
Dissatisfied

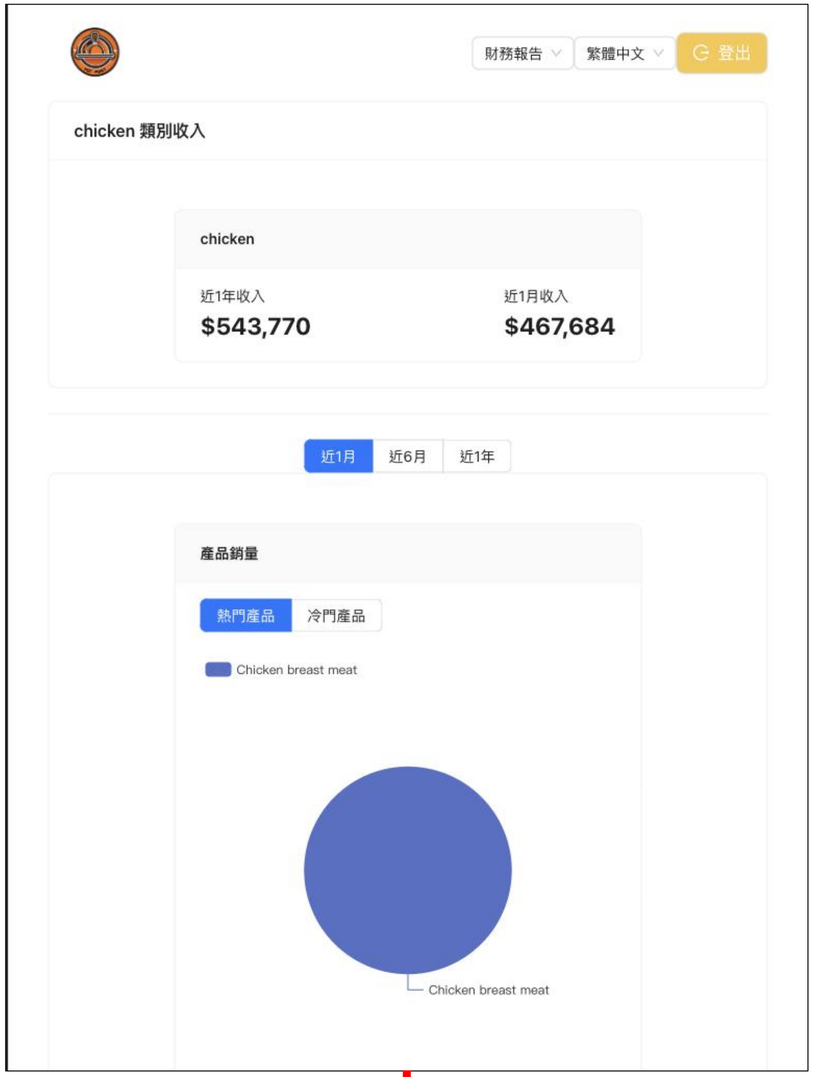


- **Perform sentiment analysis on customer reviews for different product categories using the pre-trained models Hugging Face's Transformers provided.**
- **Calculate the overall customer satisfaction level for the product category by determining the percentages of satisfied, neutral, and dissatisfied sentiments.**
- **Hugging Face's Transformers is an open-source natural language processing (NLP) library providing pre-trained Transformer models.**
- **Pre-trained model applied: facebook/bart-large-mnli (Zero-Shot Classification)**

Business analysis of the product category revenue (RWD)



Mobile's view

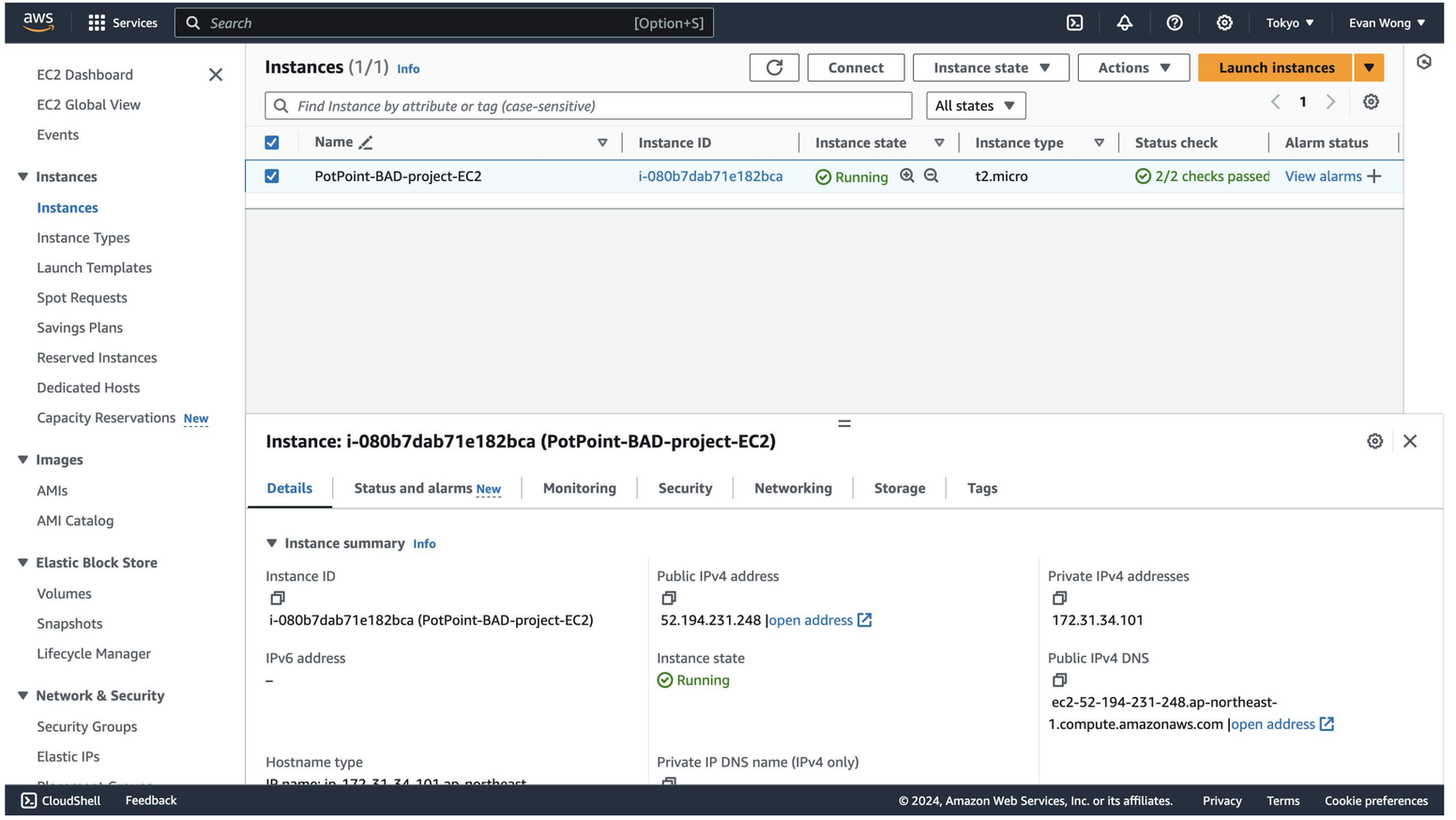


Tablet's view

Deployment

AWS EC2

- Deploy application on EC2.
- OS: Ubuntu
- Public IPv4 address:
  - http://52.194.231.248:8080/
  - 帳號：pot_point
  - 密碼：pot_point



CI/CD

GitHub Actions

- Implement CI/CD, automate testing and deployments.
- Increase the speed and quality of software deliveries while maintaining the stability and reliability of the development process.
- Right image is screenshot of "ci-cd-pipeline.yml"