



POS RESTAURANT

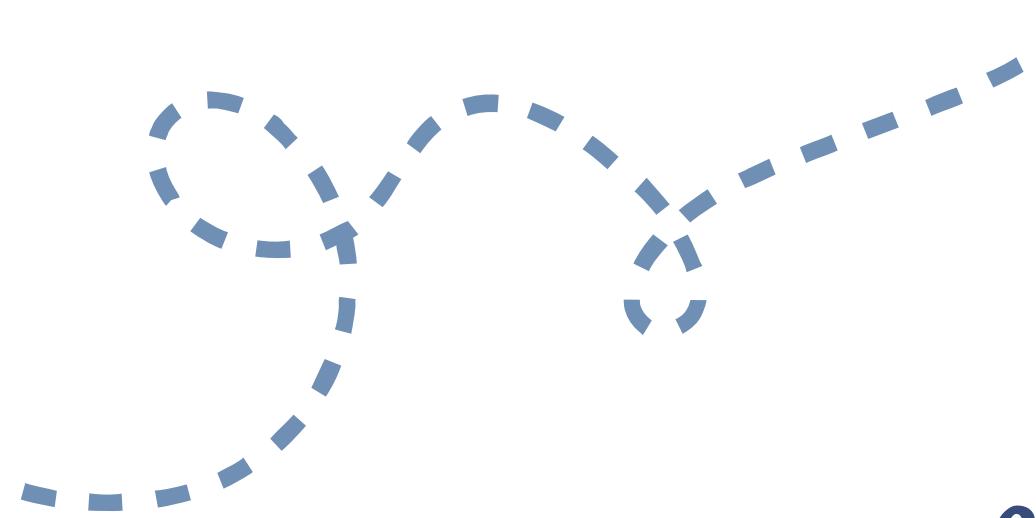
WHAT CAN WE DO ?

เป็นระบบที่ช่วยให้พนักงานสามารถรับออเดอร์,
จัดการโต๊ะ, คิดเงิน, ส่งรายการอาหารไปยังครัว/บาร์ และดู
รายงานยอดขายได้อย่างสะดวก ครอบคลุมทั้งพนักงานเลิร์ฟ
แอดมิเนสซิส เซฟ และผู้ดูแลระบบ



USER GROUPS

- แอดมิน: ดูแลระบบ, รายงานยอดขาย, จัดการเมนู/ผู้ใช้
- พนักงานเสิร์ฟ/แดชเชียร์: จัดการโต๊ะ, รับออเดอร์, คิดเงิน, แยกบิล, ออกรายรับ
- พ่อครัว/บาร์เทนเดอร์: ดูรายการอาหาร/เครื่องดื่มที่ต้องเตรียม
- ลูกค้า: สั่งรายการอาหาร ด้วยตัวเอง



PACKAGES & LIBRARIES USED

FRONTEND

Core Framework

- NextJs



Language

- TypeScript



UI & Styling

- Tailwind CSS



API & Data Fetching

- Axios



BACKEND

PACKAGES & LIBRARIES USED

- Gin – HTTP Web Framework
- GORM – ORM Library
- Logrus – Logging Library
- Bcrypt – Passwording Hashing
- obj storage – MinIO



FRONTEND

- Feature : TABLE QR CODE



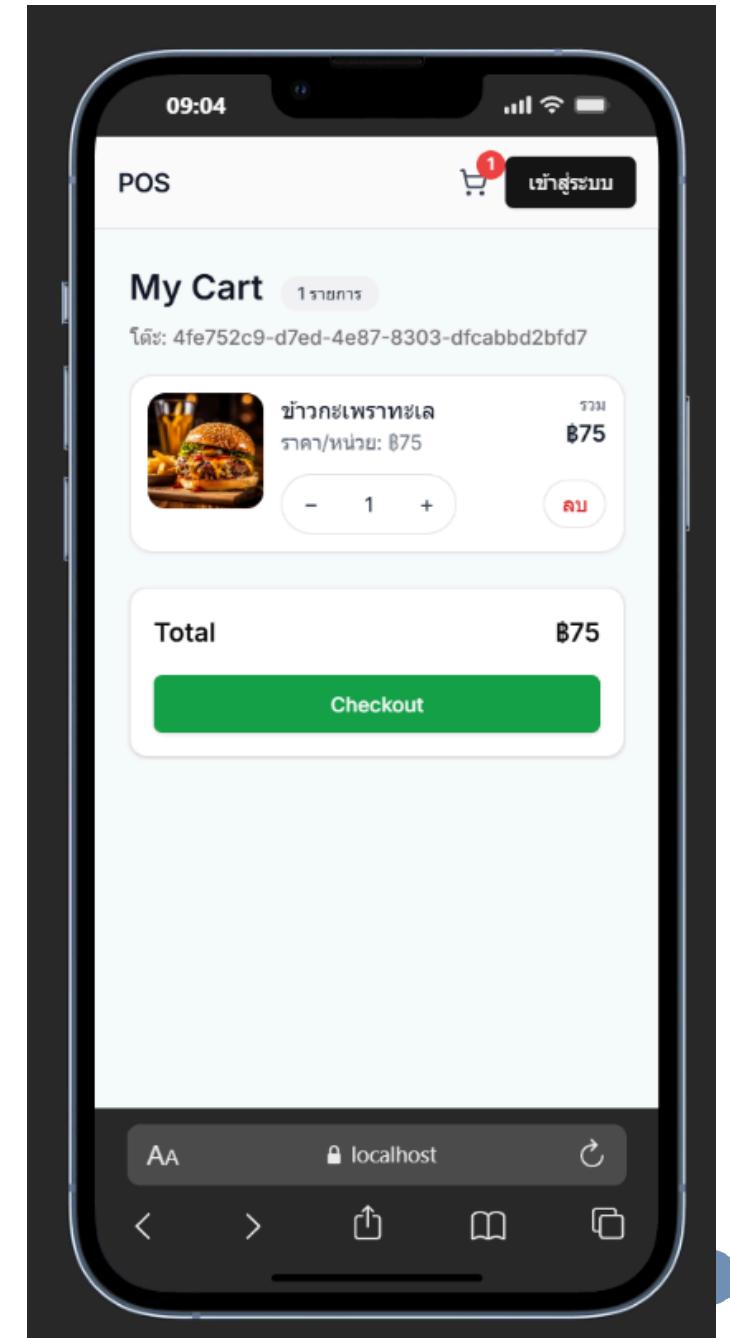
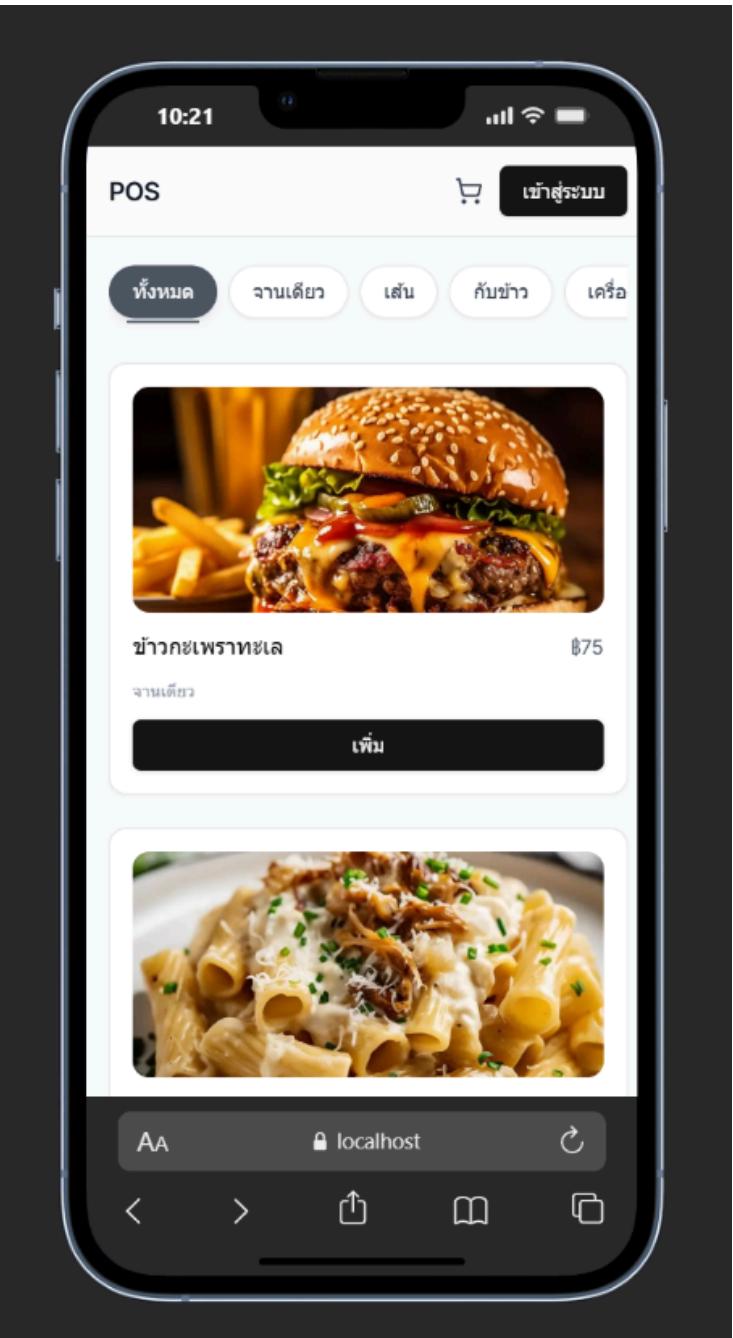
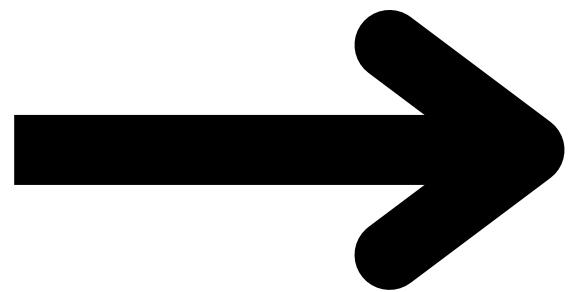
- <http://localhost:3000/qr?tableId=ca913ecf-0f01-47ae-84ed-2acab165ab61&name=B1>
- <http://localhost:3000/qr?tableId=4fe752c9-d7ed-4e87-8303-dfcabbd2bfd7&name=P1>
- <http://localhost:3000/qr?tableId=gf92f358-9acc-4e0c-9964-20c320b5518f&name=T1>
- <http://localhost:3000/qr?tableId=a5d9553a-812c-4b28-92ea-df9c9d49146f&name=T2>



FRONTEND

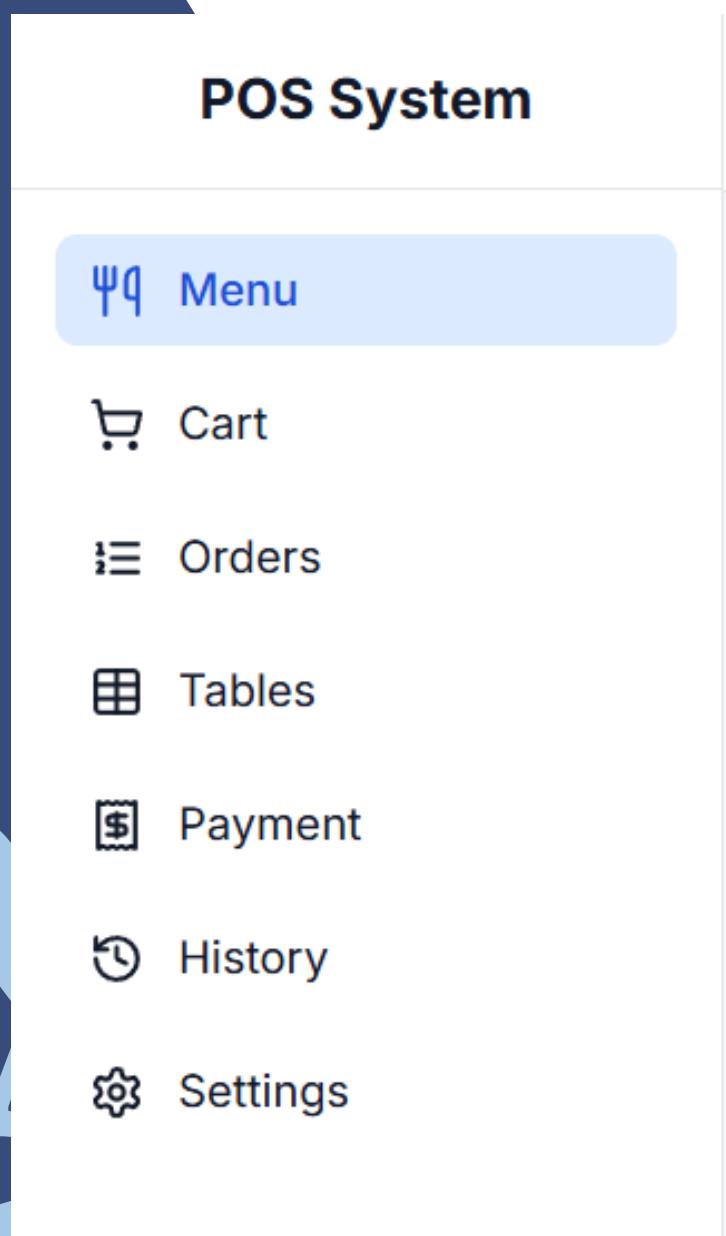
(ลูกค้า)

เมื่อ加เพิ่มรายการอาหาร



FRONTEND

(Public page)



The screenshot shows the Restaurant POS public menu page. At the top, it says "POS System" and "Restaurant POS". On the left, there is a sidebar with the following options: "Menu" (highlighted in blue), "Cart", "Orders", "Tables", "Payment", "History", and "Settings". The main area displays a grid of six food items:

Image	Name	Price
	ข้าวคอกเพราทะเล	฿75
	ข้าวคอกเพราหมู	฿55
	ข้าวคอกเพราไก่	฿55
	ข้าวคอกน้ำหนมกรอบ	฿70
	ข้าวผัดกุ้ง	฿75
	ข้าวผัดพริกแกงไก่	฿60

FRONTEND

(Chef page)

The screenshot shows a web-based POS system interface. The title bar reads "Restaurant POS". On the left, a sidebar titled "POS System" lists several options: Menu, Cart, Orders (which is highlighted in blue), Tables, Payment, History, and Settings. The main content area is titled "Orders" and displays a list of orders. At the top of this list are buttons for "All (35)", "Open (1)", "Paid (25)", and "Void (9)". Below these buttons, a single order is shown for "โต๊ะ T2" (Table T2) which is "Open". The order was placed on "เวลา: 14 ต.ค. 2568 03:45". The total amount is "฿225". A button labeled "ดูรายละเอียด" (View details) is present. Below the order, it says "ข้าว กะเพรา หache x 3". The bottom of the screen shows a taskbar with various icons and the date "14/10/2568" and time "9:08".

FRONTEND

(Cashier page)

The screenshot shows a web-based POS system interface for a restaurant. The title bar indicates the browser is running on localhost:3000/tables. The main header includes the POS System logo, the title "Restaurant POS", and user navigation links for "Cart" (Thai: ตะกร้า), "Owner" (Thai: ผู้ดูแล), and "Logout".

The left sidebar, titled "POS System", contains the following menu items:

- Menu
- Cart
- Orders
- Tables** (highlighted)
- Payment
- History
- Settings

The central content area is titled "Tables" and describes it as "Manage restaurant tables and orders". It displays two table entries:

- T1: Available (Main Hall • 4 seats)
- T2: Occupied (Main Hall • 4 seats)

Below the table list, a "Table Details" panel is open for T2, showing the following information:

- Table: T2
- Zone: Main Hall
- Capacity: 4 seats
- QR Code: qr_t2_2mrf

At the bottom of this panel are "Close" and "View Orders" buttons.

To the right of the table list, there are three status boxes:

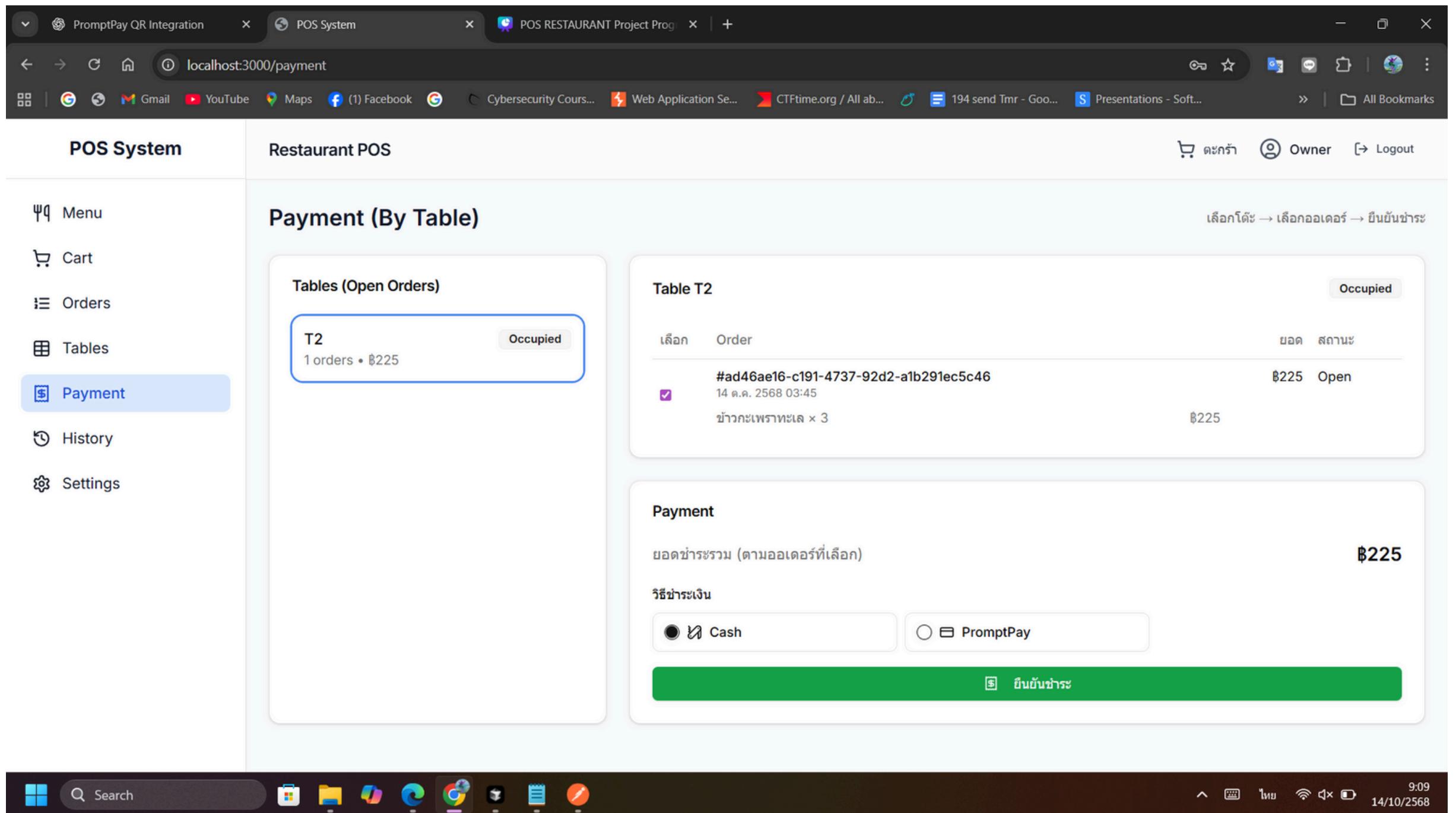
- Bar: 1 free | 0 busy
- Main Hall: 1 free | 1 busy (highlighted)
- Patio: 1 free | 0 busy

A "Table Orders" section shows one open order for T2:

- 桌號 T2 Open
- 14 ต.ค. 2025, 3:45 น.
- ข้าวกำเพราทะเล x 3
- ฿225 View

FRONTEND

(Cashier page)



FRONTEND

(Owner / admin page)

This screenshot shows the 'History & Analytics' section of the Restaurant POS system. It displays a bar chart comparing sales from October 13th to October 14th. The chart shows a significant increase in sales on the 14th. Key statistics at the top include total sales of \$84,540, 24 orders, 189 items, and payment method cash.

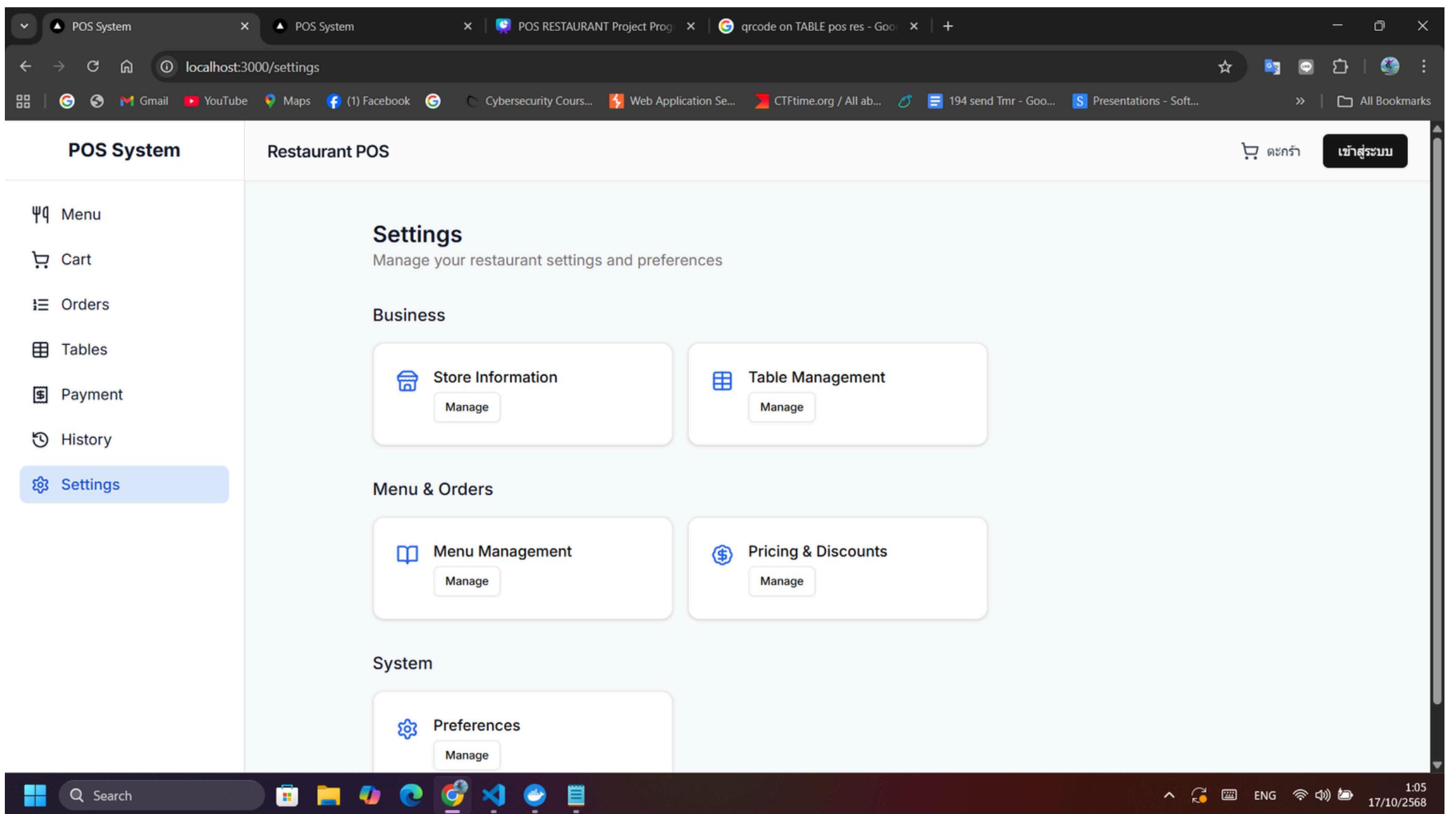
Date	Cash	Promtpay
13 ต.ค.	\$2,925	\$1,615
14 ต.ค.		

This screenshot shows the 'Payments' history page of the Restaurant POS system. It lists various transactions with details such as payment ID, order ID, method, status, provider, date/time, and amount. Most transactions are via Cash or Promptpay and have succeeded.

Payment	Order	Method	Status	Provider	Date/Time	Amount
bb249dc2-2c31-49ba-8ed7-11e24b3bcf83	#fe05e0b5-e9f0-4676-ac9ca09c509f3905	Promptpay	succeeded	—	14/10/2025, 4:33 น.	\$80
b0c0ca93-8615-4fc5-964c-6c8ccf21e286	#5b33de5b-20fe-4c22-99c5-510f7ee36e89	Cash	succeeded	—	14/10/2025, 3:45 น.	\$75
1f4234e8-2627-4800-b714-401647b65daa	#f422fd63-9bbe-46fa-9411-85dff21540ff	Cash	succeeded	—	14/10/2025, 3:26 น.	\$185
7c35bca7-16a9-45c9-b875-dbaeec52213b	#e4099fad-4f04-4b90-8549-ff4b3a43efe2	Cash	succeeded	—	14/10/2025, 3:26 น.	\$185
f0fa1dc8-559b-45b3-9e5d-399538dd53e6	#668c1134-c420-41cb-b204-7762975d26a5	Cash	succeeded	—	14/10/2025, 3:26 น.	\$185
d48d0232-1894-4f96-bff1-23fc2e0d716c	#173a1f8d-8fa2-496d-9645-f18b9bf6d72a	Cash	succeeded	—	14/10/2025, 3:26 น.	\$8670
009ad65e-fa76-4aab-aaab-e10552e67fad	#65164e06-017e-4b3d-9455-06b214f72ef6	Cash	succeeded	—	14/10/2025, 3:26 น.	\$135
68c517dd-7940-4194-93fc-16d1dc7185b3	#0a1a8959-ebec-4f90-bf25-402b79da05e0	Cash	succeeded	—	14/10/2025, 3:26 น.	\$410

FRONTEND

(Owner / admin page)



BACKEND



- DB URL : <https://dbdiagram.io/d/POS-Restaurants-6894c761dd90d17865f1bf5c>

BACKEND

The screenshot shows a dark-themed application interface for managing a database. On the left, a sidebar provides navigation through various project sections like Dashboard, Branches, Integrations, Auth, Settings, and specific branches like main, Overview, Data API, Monitoring, SQL Editor, and Tables. The Tables section is currently selected. The main area is titled 'Tables' and shows a list of tables under the 'main' branch, including pos, Database studio, public, areas, categories, dining_tables, menu_items (which is highlighted), modifiers, order_item_modifiers, order_items, orders, payments, permissions, role_permissions, and roles. Below this, a detailed view of the 'menu_items' table is displayed with the following data:

	id uuid	category_id uuid	name varchar	sku varchar
	0097e786-4559-4c25-b34...	c6b6a38b-9020-4294-b54...	ข้าวผัดหมู	RTA-KAOPAD-MOO-01
	144cc802-6689-4bdf-a3c...	49aa55fd-e17a-494c-b75...	น้ำเปล่า	DRK-WATER-01
	26fc89e3-52c6-4fcc-b51...	c6b6a38b-9020-4294-b54...	ข้าว กะเพราไก่	RTA-GAP-KAI-01
	2c9de8c4-e7ce-4fed-aa1...	6b8bdda8-a0ce-4e3e-8e9...	ราดหน้าทะเล	RTA-RADNA-SEA-01
	335debb6-c1c3-4d09-a32...	c6b6a38b-9020-4294-b54...	ข้าว กะเพราหมู	RTA-GAP-MOO-01
	4a5e5279-fb7a-4424-9fd...	841f2aa9-9181-4384-9f0...	ต้มยำกุ้ง (ถ้วย)	RTA-TOMYUM-KUNG-01
	524681d1-c8a7-4a57-b67...	c6b6a38b-9020-4294-b54...	ข้าวผัดกุ้ง	RTA-KAOPAD-KUNG-01
	5898a731-734f-4da4-90d...	c6b6a38b-9020-4294-b54...	ข้าวคั่นน้ำหมูกรอบ	RTA-KHANA-CRISPPORK-01
	65c8be73-2558-4573-8a6...	c6b6a38b-9020-4294-b54...	ข้าวผัดพริกแกงไก่	RTA-PRIKKANG-KAI-01
	8d83b8d9-8ff8-4fd9-844...	6b8bdda8-a0ce-4e3e-8e9...	ผัดซีอิ๊วหมู	RTA-SIEIW-MOO-01
	a42cf71b-e1a9-484b-abd...	6b8bdda8-a0ce-4e3e-8e9...	ผัดซีอิ๊วทะเล	RTA-SIEIW-SEA-01
	a6c0f968-abe9-4414-a53...	c6b6a38b-9020-4294-b54...	ข้าว กะเพราทะเล	RTA-GAP-SEA-01
	ba644555-47d4-43b2-a64...	841f2aa9-9181-4384-9f0...	กะนาหมูกรอบ (ก้น)	RTA-KHANA-CRISPPORK-SI...
	c71e60d6-a20a-4279-bcd...	49aa55fd-e17a-494c-b75...	ชาเย็น	DRK-CHA-YEN-01
	dc75d5d6-43e5-4137-a3f...	841f2aa9-9181-4384-9f0...	ไข่เจียวหมูลัน	RTA-KAICHIAO-MOOSAP-01
	f88f61c9-8408-479d-918...	6b8bdda8-a0ce-4e3e-8e9...	ราดหน้าหมู	RTA-RADNA-MOO-01
	fd0827ae-1f0b-442f-bcb...	49aa55fd-e17a-494c-b75...	ชาต่ายืน	DRK-CHA-DAM-01

BACKEND

Tables

	id uuid	user_id uuid	token varchar	expires_at timestamp
<input type="checkbox"/>	05eaa926-bd97-4b3c-94a...	5333160e-334b-45dc-a81...	d608f47d70667faa2bde22...	2025-10-15 04:09
<input type="checkbox"/>	1511598a-6b7e-4688-980...	5333160e-334b-45dc-a81...	67f58f37383280628f0de9...	2025-10-15 03:10
<input type="checkbox"/>	7e56b01c-df62-4d33-954...	5333160e-334b-45dc-a81...	98ffc4d26bb4973836d8f6...	2025-10-14 20:54
<input type="checkbox"/>	ae0c7c70-fcc7-4312-ac0...	5333160e-334b-45dc-a81...	f024ba2ee0fd56cc4e9d44...	2025-10-15 04:09
<input type="checkbox"/>	bd012483-532b-41fe-ba3...	5333160e-334b-45dc-a81...	8a18b5e0317c7a33af2ae5...	2025-10-15 03:10
<input type="checkbox"/>	e2b1c104-9f06-42ae-8f4...	5333160e-334b-45dc-a81...	8a91ccd5bef5a5ca349e3d...	2025-10-15 04:09

6 rows • 97ms < 50

main

pos

Database studio

public

Search...

menu_items

modifiers

order_item_modifiers

order_items

orders

payments

permissions

role_permissions

roles

sessions

BACKEND

The screenshot shows the Postman application interface. On the left, the sidebar displays the 'pos-backend' collection, which contains several environments, flows, and history. The main workspace shows a 'POS / Menu Item / All Menu' collection with a 'GET' request endpoint. The endpoint URL is `{{base_url}}/v1/menu-items`. The 'Params' tab is selected, showing no parameters. The 'Headers' tab lists 8 items. The 'Body' tab is selected, showing a JSON response. The response body is as follows:

```
1 [  
2 {  
3     "id": "a6c0f968-abe9-4414-a534-221ff3e87a34",  
4     "name": "ข้าว กะเพรา พะโล้",  
5     "price_baht": 75,  
6     "active": true,  
7     "image_url": "https://www.foodiesfeed.com/wp-content/uploads/2023/06/burger-with-melted-cheese.jpg",  
8     "category": {  
9         "id": "c6b6a38b-9020-4294-b54e-d3d53006e29c",  
10        "name": "ajan deuya",  
11        "display_order": 1  
12    }  
13 },  
14 {  
15     "id": "335debb6-c1c3-4d09-a320-09a1ae6862e6",  
16     "name": "ข้าว กะเพรา หมู",  
17     "price_baht": 55,  
18     "active": true,  
19     "image_url": "https://www.foodiesfeed.com/wp-content/uploads/2023/08/rigatoni-with-cream-sauce.jpg",  
20     "category": {  
21         "id": "c6b6a38b-9020-4294-b54e-d3d53006e29c",  
22         "name": "ajan deuya",  
23         "display_order": 1  
24    }  
25 },  
26 {  
27     "id": "26fc89e3-52c6-4fcc-b51a-9204919b0707"  
28 }
```

The response status is 200 OK, with a duration of 708 ms and a size of 6.05 KB. Below the response, there are buttons for 'Save Response' and other options.

At the bottom of the interface, there are navigation links: Online, Find and replace, Console, Import Complete, Postbot, Runner, Start Proxy, Cookies, Vault, Trash, and Help.

BACKEND

```
func MenuItemRoutes(v1 *gin.RouterGroup) {
    menuItemRepository := menuItemRepository.NewMenuItemRepository(database.DB)
    menuItemUsecase := menuItemUsecase.NewMenuItemUsecase(menuItemRepository)
    menuItemHandler := menuItemHandler.NewMenuItemHandler(menuItemUsecase)

    // Public routes for customers
    menuItemPublicRoutes := v1.Group("/menu-items")
    {
        menuItemPublicRoutes.GET("", menuItemHandler.GetAllMenuItems)
        menuItemPublicRoutes.GET("/modifiers", menuItemHandler.GetAvailableModifiers)
        menuItemPublicRoutes.GET("/:id", menuItemHandler.GetMenuItemByID)
    }

    // Protected routes for staff/admin
    menuItemProtectedRoutes := v1.Group("/menu-items")
    menuItemProtectedRoutes.Use(middlewares.AuthMiddleware())
    {
        menuItemProtectedRoutes.POST("", menuItemHandler.CreateMenuItem)
        menuItemProtectedRoutes.PUT("/:id", menuItemHandler.UpdateMenuItem)
        menuItemProtectedRoutes.DELETE("/:id", menuItemHandler.DeleteMenuItem)
    }
}
```

BACKEND

```
[GIN-debug] POST /v1/users/:id/roles    --> github.com/pubestpubest/pos-backend/feature/user/delivery.(*userHandler).AssignRole-fm (5 handlers)
[GIN-debug] GET  /v1/menu-items      --> github.com/pubestpubest/pos-backend/feature/menuItem/delivery.(*menuItemHandler).GetAllMenuItems-fm (5 handlers)
[GIN-debug] GET  /v1/menu-items/modifiers --> github.com/pubestpubest/pos-backend/feature/menuItem/delivery.(*menuItemHandler).GetAvailableModifiers-fm (5 handlers)
[GIN-debug] GET  /v1/menu-items/:id     --> github.com/pubestpubest/pos-backend/feature/menuItem/delivery.(*menuItemHandler).GetMenuItemByID-fm (5 handlers)
[GIN-debug] POST /v1/menu-items      --> github.com/pubestpubest/pos-backend/feature/menuItem/delivery.(*menuItemHandler).CreateMenuItem-fm (5 handlers)
[GIN-debug] PUT   /v1/menu-items/:id     --> github.com/pubestpubest/pos-backend/feature/menuItem/delivery.(*menuItemHandler).UpdateMenuItem-fm (5 handlers)
[GIN-debug] DELETE /v1/menu-items/:id     --> github.com/pubestpubest/pos-backend/feature/menuItem/delivery.(*menuItemHandler).DeleteMenuItem-fm (5 handlers)
[GIN-debug] GET  /v1/tables          --> github.com/pubestpubest/pos-backend/feature/table/delivery.(*tableHandler).GetAllTables-fm (5 handlers)
[GIN-debug] GET  /v1/tables/with-open-orders --> github.com/pubestpubest/pos-backend/feature/table/delivery.(*tableHandler).GetTablesWithOpenOrders-fm (5 handlers)
[GIN-debug] GET  /v1/tables/:id        --> github.com/pubestpubest/pos-backend/feature/table/delivery.(*tableHandler).GetTableByID-fm (5 handlers)
[GIN-debug] PUT   /v1/tables/:id/status --> github.com/pubestpubest/pos-backend/feature/table/delivery.(*tableHandler).UpdateTableStatus-fm (5 handlers)
[GIN-debug] [WARNING] You trusted all proxies, this is NOT safe. We recommend you to set a value.
Please check https://pkg.go.dev/github.com/gin-gonic/gin#readme-don-t-trust-all-proxies for details.
[GIN-debug] Listening and serving HTTP on :8080
[GIN] 2025/10/14 - 01:42:04 | 200 | 1.114583458s |           ::1 | GET  "/v1/orders"
[GIN] 2025/10/14 - 01:42:07 | 200 | 746.3565ms  |           ::1 | GET  "/v1/orders/open"
[GIN] 2025/10/14 - 01:42:16 | 200 | 740.889209ms |           ::1 | GET  "/v1/tables/with-open-orders"
[GIN] 2025/10/14 - 01:43:02 | 200 | 453.705042ms |           ::1 | GET  "/v1/tables"
[GIN] 2025/10/14 - 01:50:25 | 200 | 747.871375ms |           ::1 | GET  "/v1/tables/with-open-orders"
[GIN] 2025/10/14 - 02:35:20 | 200 | 1.865241208s |           ::1 | GET  "/v1/tables/with-open-orders"
[GIN] 2025/10/14 - 03:10:30 | 200 | 1.451488084s |           ::1 | POST "/v1/auth/logout"
[GIN] 2025/10/14 - 03:10:34 | 200 | 498.854375ms |           ::1 | POST "/v1/auth/login"
[GIN] 2025/10/14 - 04:06:39 | 200 | 690.994833ms |           ::1 | GET  "/v1/menu-items"
[GIN] 2025/10/14 - 04:09:21 | 200 | 385.161625ms |           ::1 | POST "/v1/auth/login"
[GIN] 2025/10/14 - 04:09:22 | 200 | 322.969708ms |           ::1 | POST "/v1/auth/login"
[GIN] 2025/10/14 - 04:09:24 | 200 | 469.452625ms |           ::1 | POST "/v1/auth/login"
WARN[2025-10-14T04:13:07+07:00] [AreaHandler.DeleteArea]: Error deleting area: [AreaUsecase.DeleteArea]: Area not found: [AreaRepository.GetAreaByID]: Area not found: record not found
[GIN] 2025/10/14 - 04:13:07 | 500 | 515.47325ms |           ::1 | DELETE "/v1/areas/8eec7a0d-cdf2-4efb-919d-e07cd865f261"
```

សមាជិក



Phanudet
Sueaphueak
650610797



Pubest
Ruengkum
650610798



Korarit
Punnopasri
650610744



Q&A

ສາມ/ຄອບ