

Case Study: Designing a POS

Collecting the Requirements:

After interview with customer I figure out many problems that he meets everyday.

- Cannot manage inventory stock
- Waiter spend more time go and tell the chef about food that guest orders
- After the chef finished their cook they need to tell waiter to collect it
- Hard to view inventory report
- Account Spend much time on doing sale report for daily, monthly, and year

So after we found out his problem that he meet every day I can find the requirement that he want to do in this POS:

Functional Requirement:

- I will build POS system with staff login, to make sure that only staff can use it.
- have a role permission which super admin can set up staff role and allow which function that role can access.
- Have create, update, delete and view staff.
- Have create, update, delete and view branch
- Have create, update, delete and view category
- Have create, update, delete and view product
- Product have type as ingredient, cut stock type as (product, product_ingredient)
- Can set up inventory cut stock by product ingredient and by product
- Stock in when new product purchase
- Adjust product inventory
- View product inventory by monthly
- Have create, update, delete and view room
- Create Invoice by using guest room no
- Can print Invoice for guest
- Invoice will be pay when guest check out

- Sale Report daily, monthly and yearly

Non Functional Requirement:

- Need to set up local network for make computer connect to each others
- Create a system documentation
- Create videos training on system

Creating User Stories:

Considering these requirements, we identify three major topics:

- Login System
- Role Permission
- Create, update, delete and view staff
- Create, update, delete and view branch
- Create, update, delete and view category
- Create, update, delete and view product
- Create, update, delete and view room
- Can manage inventory stock
- Create Invoice and print
- Payment
- Sale Report daily, monthly and yearly
- Inventory Report daily, monthly and yearly

Epic #1: Login System

- As a user, I need to login to with my user and password so that I can use the system

Epic #2: Role Permission

- As a super admin, I want to create role for my staff so that I can assign permission which function in the system that they can use
- As a super admin, I want to assign my staff user a role, so that I can let them use system by their role permission

Epic #3: CRUD Staff

- As a access role user, I want to create, update, delete and view staff so that I easy to manage them

Epic #4: CRUD Branch

- As a access role user, I want to create, update, delete and view branch so that I easy to manage my inventory by branch

Epic #5: CRUD Category

- As a access role user, I want to create, update, delete and view category so that I easy to manage my product by category

Epic #6: CRUD Product

- As a access role user, I want to create, update, delete and view product so that I easy to manage my product
- As a access role user, I can specific my product type, and cut stock type on my product so that I can easy to manage how to cut my inventory stock

Epic #7: CRUD Room

- As a access role user, I want to create, update, delete and view room so that I easy to manage which room is order food and easy to do payment when guest check out

Epic #8: Inventory

- As a access role user, I want to view inventory so that I easy know what should I buy and which product is nearly run out of stock
- As a access role user, I want to do stock in so that it easy when I purchase new inventory
- As a access role user, I want to do stock adjust so that I can adjust when product is expire, broken or cannot use anymore, etc.
- As a access role user, I want to manage product cut stock inventory so that I can easy to add which product should cut stock by ingredient and cut stock by product

Epic #9: Invoice

- As a access role user, I want to assign room to invoice when guest order so that I can help accountant to do payment when guest check out
- As a access role user, I want to add product to invoice when guest order so that I can create invoice for guest, and chef.
- As a access role user, I want to reprint invoice so that I easy to show guest when they want to see invoice

Epic #10: Payment

- As a access role user, I want to do payment with guest room no when they checkout so that I can easy know how much they will pay

Epic #11: Sale Report

- As a access role user, I want to view sale report by daily, monthly and yearly so that I can know how much I earn by daily, monthly and yearly

Epic #11: Inventory Report

- As a access role user, I want to view inventory report by daily, monthly and yearly so that I can know how many inventory lost, waste, missing and should buy more or not