Bouhezila i-Tech

+213 (0) 561 69 87 16 bouhezila.itech@gmail.com bouhezila i-Tech bouhezila i-Tech

# DineSmart POS – Offline Restaurant Ordering System with QR Digital Menu

**v2.3** Installation Guide –

**Public Documentation Notice**

This DineSmart Documentation is publicly accessible at:

https://github.com/nminfo86/DineSmart-preview/tree/main/Documentation

As required by Envato, this documentation is available online without purchase.

+213 (0) 561 69 87 16 bouhezila.itech@gmail.com bouhezila i-Tech bouhezila i-Tech

# Table of Contents

+213 (0) 561 69 87 16 bouhezila.itech@gmail.com bouhezila i-Tech bouhezila i-Tech

# 1. Introduction

DineSmart is a modern, offline-first Restaurant POS and QR Menu system designed to simplify restaurant management and enhance customer experience. It combines the essential tools for order management, billing, and kitchen coordination with innovative features like interactive QR menus and multi-language support.

Built to run locally on Windows or other OS (without requiring internet), DineSmart ensures reliability, speed, and full control for restaurant owners. Whether you run a **small café**, **a full-service restaurant** or a **Hotel**, DineSmart adapts to your needs with flexible multi options.

### ✓✓ Key Capabilities

- ✓ **Complete POS Solution** – Manage orders, receipts, payments, and staff roles with an intuitive interface.
- ✓ **Printer-Free Operation** – DineSmart can run **without any printer**. Simply install and use the system to manage orders digitally (ideal for small cafés or fast-food stands).
- ✓ **QR Digital Menu** – Customers can scan a QR code and browse your menu on their smartphones, even offline.
- ✓ **Ordering from QR Menu** – Customers can place orders directly through the digital menu (if enabled).
- ✓ **Multi-language & Multi-currency** – Supports English, French, Arabic
- ✓ **Profitability Tracking** – Generate detailed reports on sales, costs, and net profits.
- ✓ **Offline First** – Works completely offline on a local network.
- ✓ **Flexible Printer Support** –
  - **ESC/POS** printers (receipt + kitchen tickets)
  - **EZPL** label printers (kitchen stickers)
  - **TSPL** label printers (kitchen stickers)

### 🔹 Use case Scenario

- **Single Restaurant:** suitable for Fast Food, Restaurants, cafés, Hotels…
  - Scenario 1: POS + one USB printer (receipts + kitchen tickets)
  - Scenario 2: POS + multiple printers + TV notifications
  - Scenario 3: POS + multiple printers + QR Menu (customers view and order from their phone)

### ❌ What DineSmart Does Not Include

To set the right expectations, DineSmart **does not** currently provide:

- **Purchasing Management** (supplier orders, purchase invoices)
- **Stock / Inventory Management** (ingredients tracking, stock levels, wastage management)
- **Integrated Payment Processing** – DineSmart does not connect to card readers, payment terminals, or online payment gateways. The cashier must handle all payments (credit/debit cards, mobile wallets, etc.) outside of the system.

## 2. System Requirements

To ensure smooth performance, your system must meet the following requirements:

- **Operating System:** Windows 10 (64-bit) preferred
- **Processor:** Intel Core i3 or higher
- **RAM:** Minimum 4 GB
- **Storage:** Minimum 128 GB SSD
- **Display:** Touchscreen PC recommended
- **Network:** Local LAN / Wi-Fi for QR Menu access
- **Printer: ESC/POS receipt printer supported**
- **- PHP:** 8.1.13
- **- MySQL:** 8.0.31

# 3. Installation Guide

### ⚠ *Important Note:*

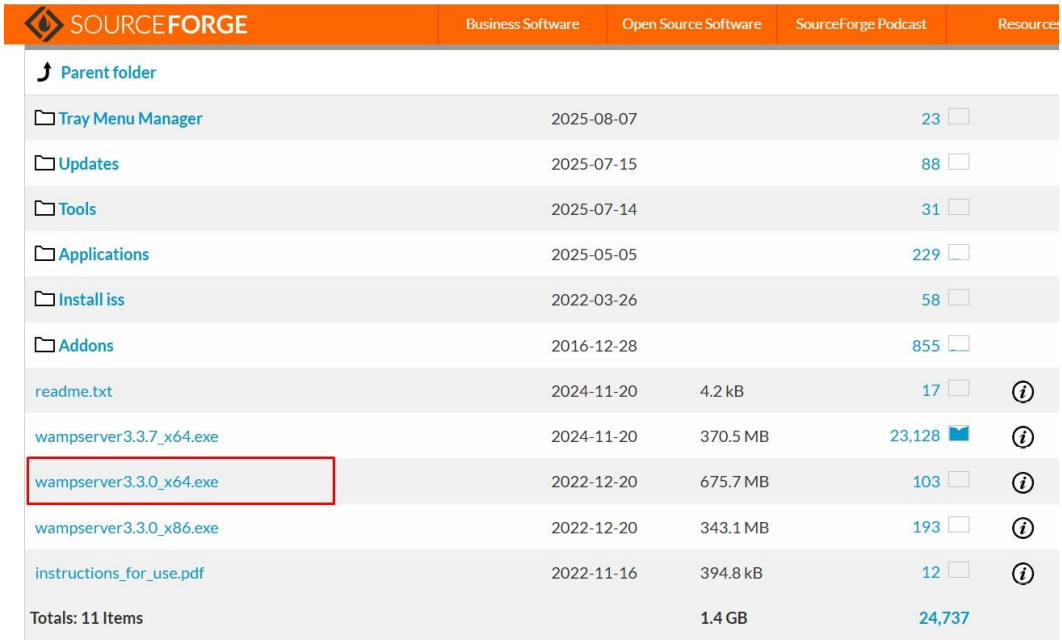
- To run DineSmart, you need a local web server environment with versions PHP (8.1.13) / MySQL (8.0.31).

- We recommend installing DineSmart on a windows 10 operating system using WAMP web server for easy installation steps and control.
- We recommend **WampServer 3.3.0 (64-bit)**, available in the official SourceForge repository.
- We recommend installing WAMP in **D:** to prevent data loss in case of OS fails.
- Before starting, make sure the **D:** partition exists on your PC (minimum free space: 15 GB).

Wamp Server is **not bundled** with DineSmart. You must **download Wamp Server 3.3.0 (64-bit)** separately from:

**Official** SourceForge **repository (recommended)**

https://sourceforge.net/projects/wampserver/files/WampServer%203/WampServer%203.0.0



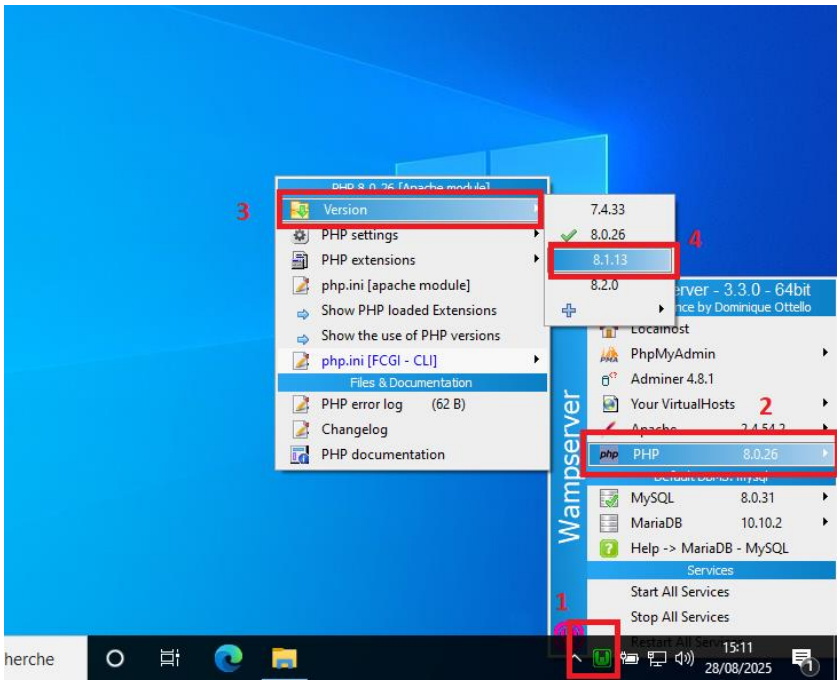
## 3.1 Step 1 – Install Dependences

Wamp server require Microsoft Visual C++ Redistributable packages 2022 to be installed. Download it from the official link:
Latest supported Visual C++ Redistributable downloads | Microsoft Learn

Install the required package.

## 3.2 Step 2 – Install & Configure WampServer (64-bit)

- Download **WampServer 3.3.0 (64-bit)** from the official SourceForge link (above).
- Install it to **D:\wamp64** and keep all other settings **to default**.
- Start Wamp Server by double-clicking the pink **"W" icon** on your desktop.
  - Wait until the **"W" icon in the system tray** (bottom-right of your screen) turns **green**, which means Apache and MySQL are running.
- **Switch PHP to 8.1.13**:
  - Left-click the green Wamp tray icon → **PHP** → **Version** → **8.1.13** (see the included screenshot).



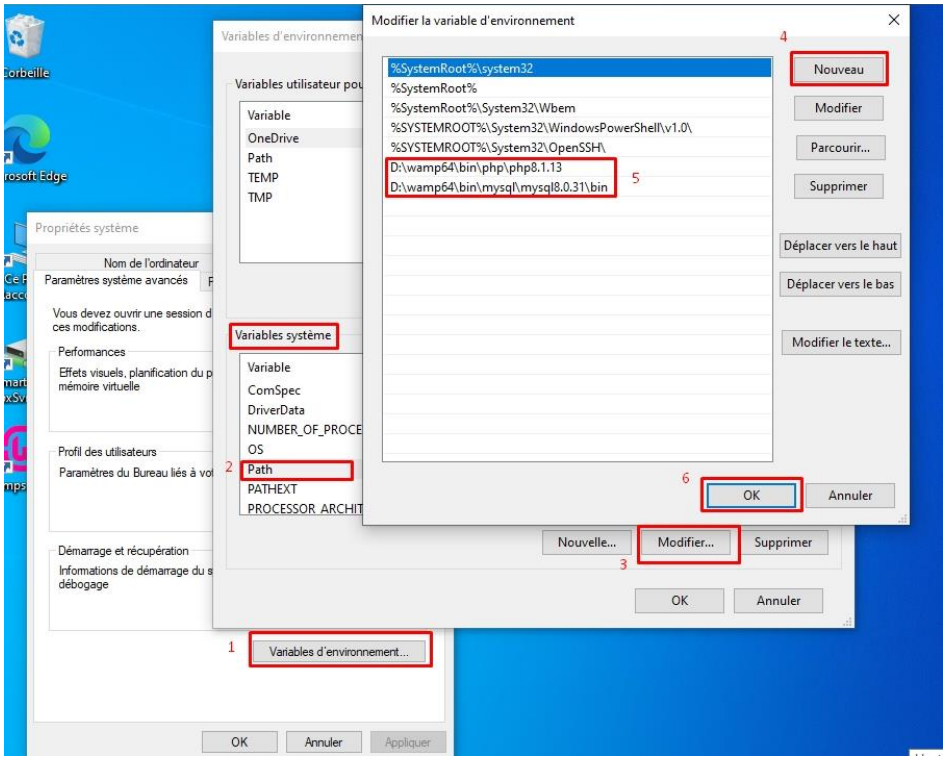

  - Wamp will reload its services; wait again until the ***tray icon is green***.

- **Increase** PHP upload limits (via Wamp tray)

1. Click the **WampServer icon** (green "W") in the taskbar.
2. Go to **PHP → PHP settings**.
3. Change both:
   - **upload_max_filesize** → choose **64M** (or **128M** if you prefer)
   - **post_max_size** → set **the same or higher** than upload_max_filesize (e.g., **64M** or **128M**)
4. Back to the tray → **Restart All Services**.

✓ Tip: post_max_size must be **≥** upload_max_filesize.

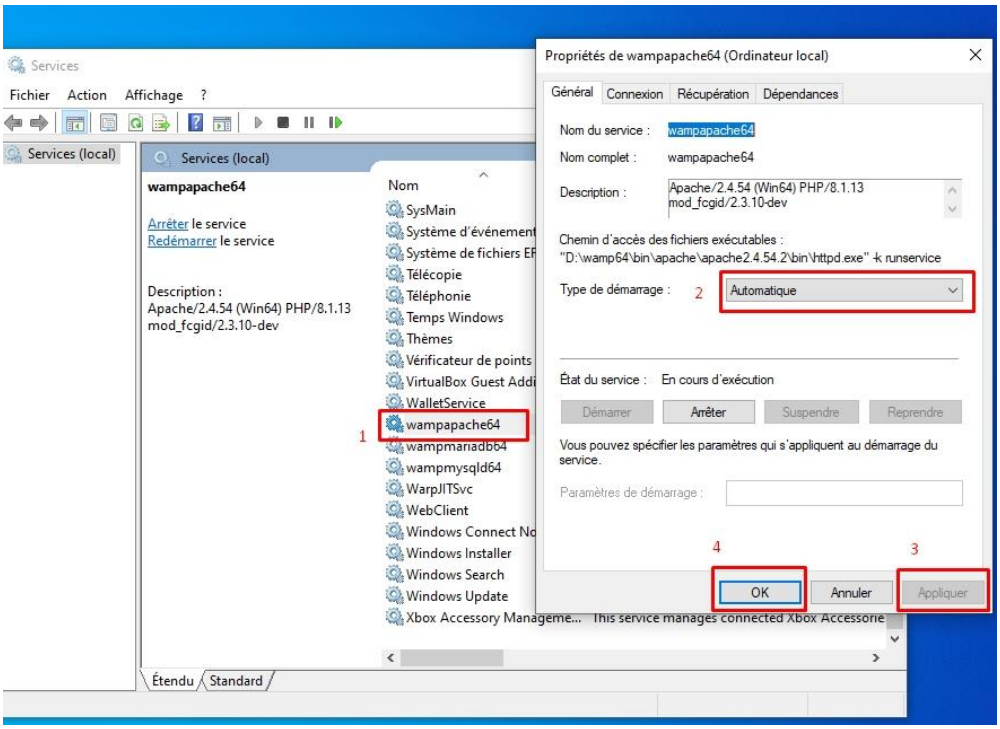
- **Add PHP & MySQL to Windows PATH**




1. Press "Win + S", type "environment", then click "Edit the system environment variables".
2. In the window → click Environment Variables.
3. Under System variables, select Path → Edit → New.

4. Add these two lines:
5. D:\wamp64\bin\php\php8.1.13\
6. D:\wamp64\bin\mysql\mysql8.0.31\bin\
7. Click OK to save.

- **Make Apache & MySQL Start Automatically**




1. Press **Win + S**, type services, then open **Services App**.
2. Find these services:
   - **wampapache64** (Apache)
   - **wampmysqld64** (MySQL)
3. Right-click each one → **Properties**.
4. In **Startup type**, choose **Automatic**.
5. Click **Apply** → **OK**.

✅ Apache and MySQL will now start automatically when Windows starts.

## 3.3 Step 3 – install DineSmart

- Create a folder with name “dinesmart” under “D:\wamp64\www”
- Copy all files located in the **“Source folder”** to “D:\wamp64\www\dinesmart” folder.
- Ensure that wamp is running : the **“W” icon in the system tray** (bottom-right of your screen) is **green**,
- Open the browser and head to http://localhost/dinesmart/setup.php
- The setup page appears:
  - Enter your mysql username & password (default are “root” with no password).
  - Click install button
  - The “Messages” section show installation status, if every thing is ok, then you see success green messages, if some thing fails, you will see Red messaged with how to fix explanations, you can share this red messaged with us to support you and resolve installation issues.
- After the setup completes, Open DineSmart by double-clicking the ***desktop shortcut***.
- Wait a little bit for the system to initialize its parameters for the first time.

✓ *With these 3 steps completed, DineSmart is ready to use.*

# 4. First Launch & Initial Setup

After installation is complete, you can start using DineSmart by clicking on the created desktop shortcut or by opening the navigator and visit: http://localhost/dinesmart. You do not need to run Wamp server each time you use the application, it will start automatically on windows start

**Default login credentials:**

- **Username:** admin
- **Password:** 1234

**Initial setup steps:**

1. Go to **Settings** → **Company** and update your business information and admin credentials.
2. Add your **menu categories** and **menu items**.

3. Configure your printers in **Settings** → **Printers**:
    - **Client Receipts** printer
    - **Chef Tickets** printer.

## 5. Printers setup

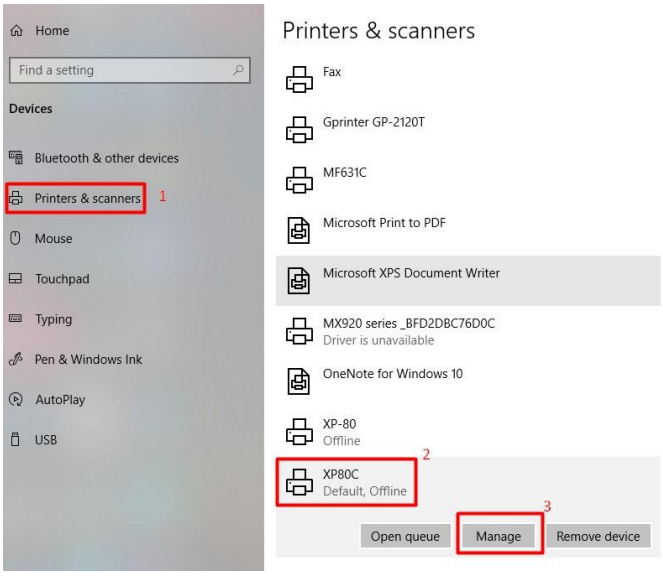
DineSmart can work without any printer, if the user decided to print receipts and Tickets, one printer is sufficient to manage all restaurant printing; you can use it in USB mode or Ethernet mode. We recommend:

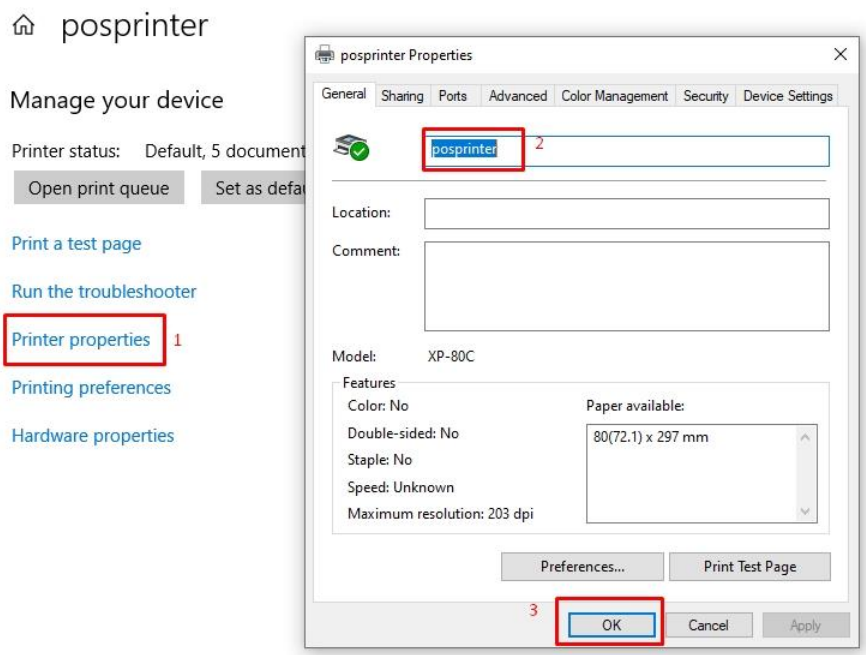
- **USB mode,** if the client decides to use only one printer to manage its restaurant.
- **Ethernet mode,** if the client decides to use more than one printer to manage its restaurant. In this case, the Cashier printer will be in USB mode Connection and the other printers (for Chefs Tickets) will use the Ethernet Connection mode.

### 5.1. Single Printer Setup (USB Mode)

- Connect and Install your receipt printer normally using the “manufacturer’s driver”.
- Rename the Printer to *“posprinter”*

1. Open **Control Panel** → **Devices and Printers**.
2. Right-click on your receipt printer → **Printer Properties**.

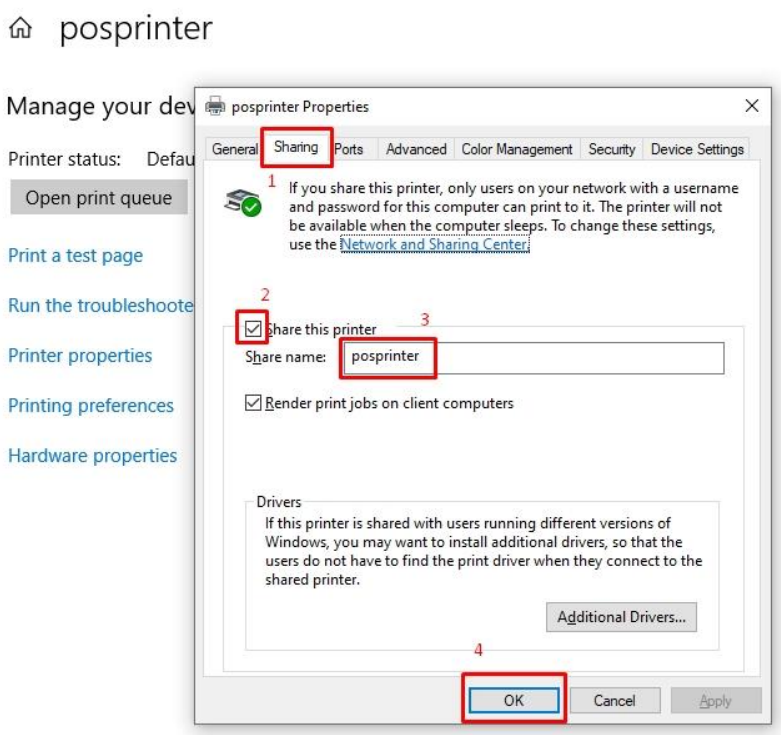





1. Change the printer's name exactly to: "*posprinter*"
2. Click **Apply** to save changes.

- Share the Printer

1. In the same **Printer Properties** window, go to the **Sharing** tab.
2. Check **Share this printer**.
3. Enter the **Share name** exactly as: "*posprinter"*
4. Click **Apply** → **OK**.




**Hint:** In **one-printer mode**, the single printer will print **both** the Chef's kitchen tickets and the customer's receipts.

## 5.2. Multiple Printers Setup (USB + Ethernet)

In larger restaurants, you may want **one cashier printer** and **separate kitchen printers** for different kitchen sections.

- **Cashier Printer (USB Mode)**
  - Must be **USB-connected** to the main POS PC.
  - Install and rename it exactly as in the **Single Printer** setup: "*posprinter"*
  - Share it with the same name: "*posprinter"*
- **Kitchen Printers (Ethernet)**
  - Connect via Ethernet to local network.
  - Assign a fixed IP (e.g., 192.168.1.2, 192.168.1.3).

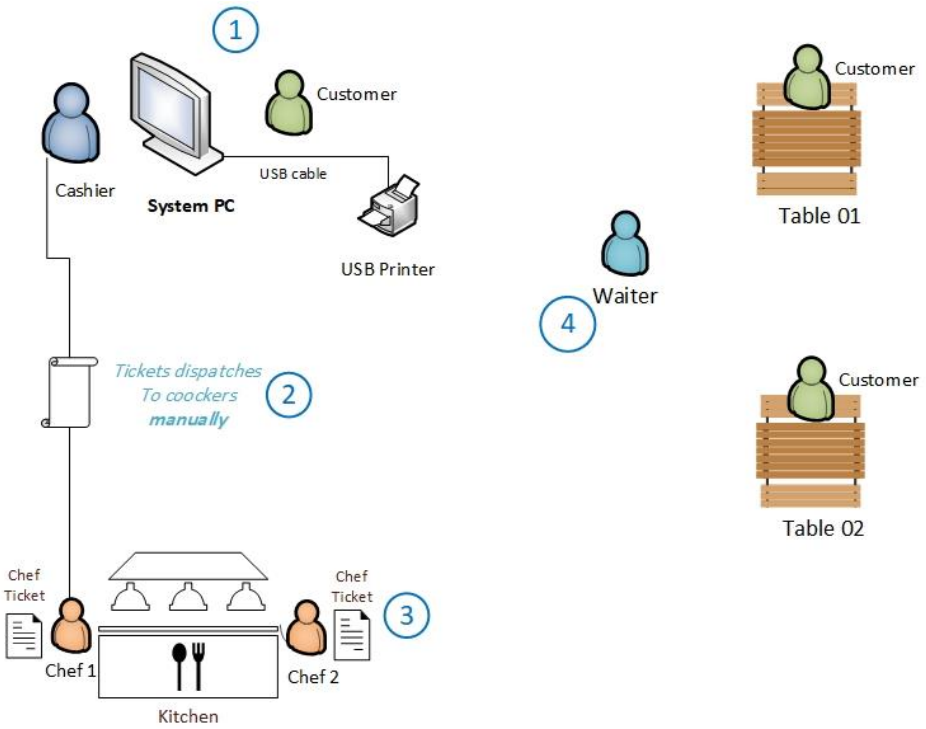
**Recommendation:**

- Cashier printer → USB
- Kitchen printers → Ethernet with static IP

# 6. Use case Scenarios (Detailed)

## 6.1. Scenario 1: POS + One USB Printer

This is the **simplest setup**, where a single USB printer is used for **both customer receipts and kitchen tickets**.




**Scenario 1:** System POS with « *one USB Printer* »

- **USB** Printer : used for Customer receipt + Kitchen Tickets

## *Workflow*

**Step 1 – Order Taking**

- A waiter takes the order at the table, or the customer places the order directly with the cashier.

**Step 2 – Order Entry**

- The cashier enters the order into DineSmart and clicks **Validate**.
- At this point, the cashier chooses between two options:
    1. **Print Kitchen Ticket only** → if the customer will pay later (after service).
    2. **Print Kitchen Ticket + Customer Receipt** → if the customer pays immediately when placing the order.

**Step 3 – Kitchen Preparation**

- The **USB printer** prints the Kitchen Ticket.
- The Tickets dispatches manually to the chef(s).
- The kitchen staff prepares the order according to the printed ticket.

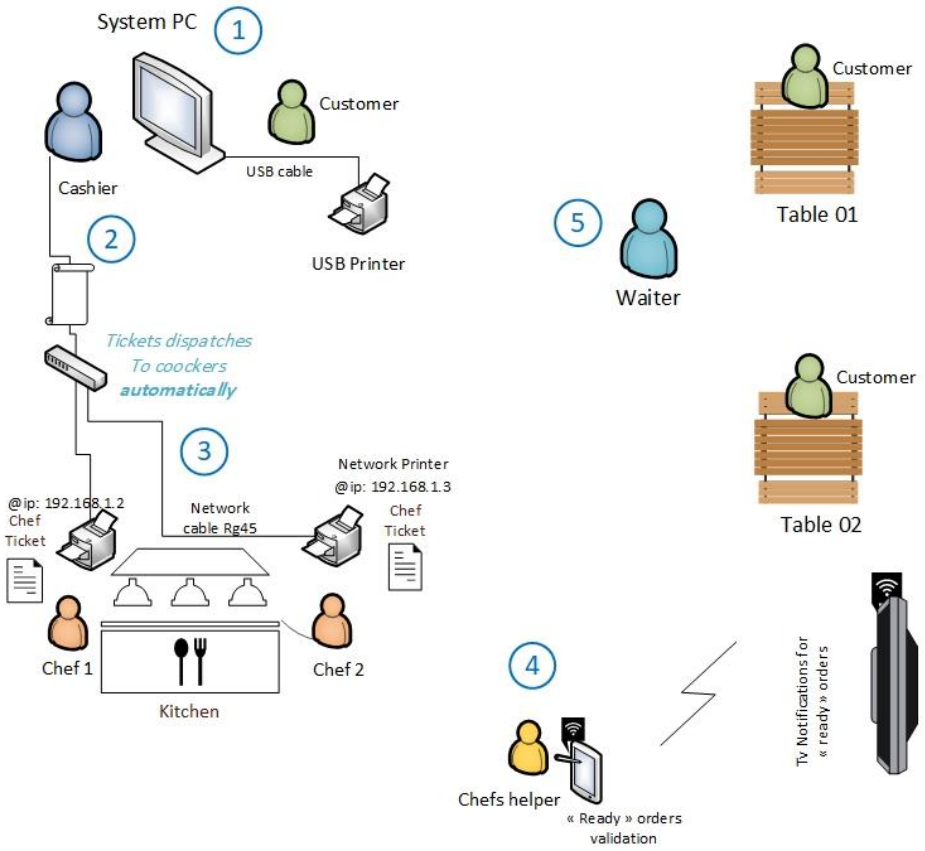
**Step 4 – Serving the Order**

- Once the food is ready, the waiter takes it from the kitchen and serves it to the customer.
- If payment was not already collected in Step 2, the customer pays at this stage and the cashier prints the receipt.

### 💡 *Key Points of Scenario 1*

- **Only one USB printer** is required.
- Suitable for **small restaurants, cafés, or snack shops**.
- Simple workflow, minimal equipment.
- Easy to manage by a single cashier and a small kitchen team.

## 6.2. Scenario 2: POS + multiple printers + TV notifications




**Scenario 2 :** System POS with Multi Printers

- **USB** Printer : used for Customer receipt
- **Network** Printer(s) : used for Chefs Kitchen Tickets
- **Tv Notifications** engaged from Chefs helper.

### *Workflow*

**Step 1 – Order Taking**

- A waiter takes the order at the table, or the customer places it directly at the cashier.

**Step 2 – Order Entry**

- The cashier enters the order in DineSmart and validates it.
- Immediately:
  - The **USB printer** prints the **customer receipt** (if the customer pays now).

- The **network kitchen printers** automatically print the **kitchen tickets**, each directed to the correct section (e.g., Grill → Grill printer, Drinks → Drinks printer).

**Step 3 – Kitchen Preparation**

- Each chef receives the ticket directly on their **dedicated network printer**, depending on their section.
- Alternatively, one **shared network printer** can be used to handle all kitchen tickets, with chefs collecting their respective tickets from the same printer.
- ***Networking Requirement***:
  - *If you are using more than **two printers**, a **network switch** is required to connect all devices (PC, printers, chef helper, TV display).*
  - *All printers must be assigned **fixed IP addresses** for stable communication.*

**Step 4 – Chef Helper & Notifications**

- A **Chef Helper station** (touchscreen PC or tablet) is used by kitchen staff to validate when an order or item is ready.
- Once validated, the order status appears as a **notification on a TV screen**.
- The **TV notification screen** can be placed:
  - **Inside the kitchen or service area** → so waiters know when orders are ready.
  - **In the customer area** → so customers can see when their orders are ready and collect them directly (self-service mode).

**Step 5 – Serving the Order**

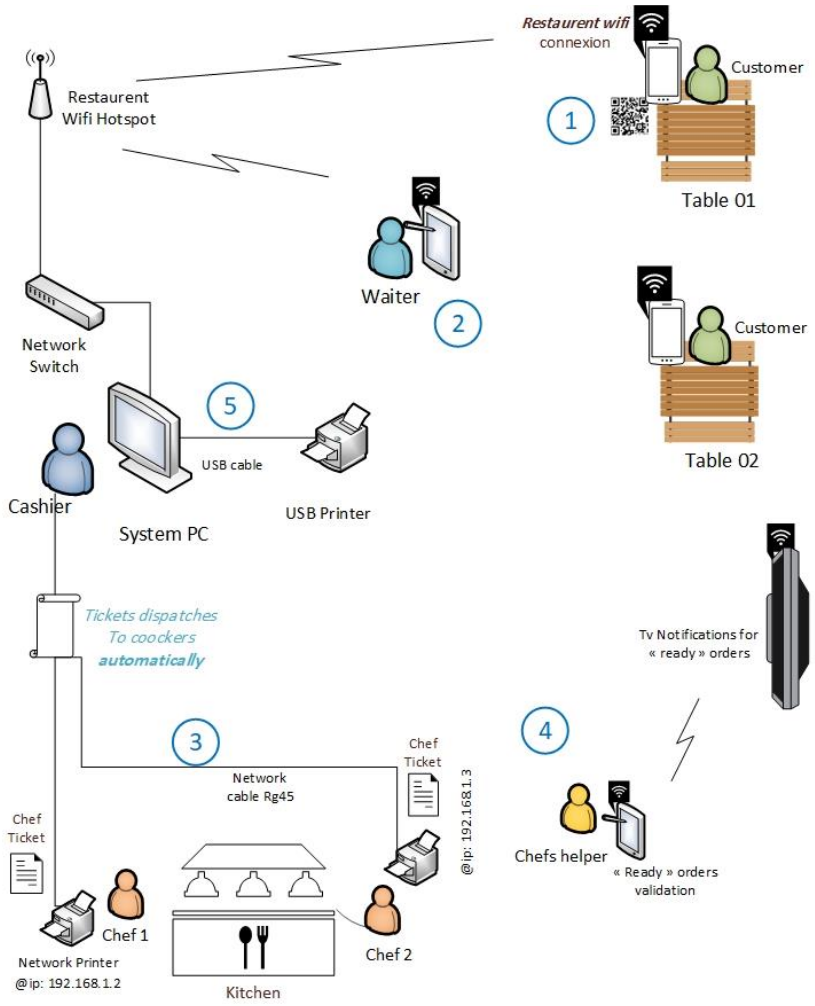
- In **table-service restaurants**, waiters take the ready order when it appears on the TV screen and serve it to the customer.
- In **self-service or fast-food restaurants**, customers collect their orders directly when their order number appears on the TV.
- If payment was not already made, the cashier prints the **receipt** from the USB printer when the customer pays.

***Key Advantages of Scenario 2***

- **Automation** – Orders are automatically sent to the right kitchen section without manual ticket delivery.
- **Faster Service** – Waiters and customers instantly know when orders are ready via TV notifications.
- **Error Reduction** – No missed or lost kitchen tickets.

- **Flexible Modes** – Works for both **waiter-service restaurants** and **self-service/fast-food setups**.
- **Scalability** – Supports one shared kitchen printer or multiple printers per section.
- **Stable Networking** – With a switch, the system can handle multiple Ethernet printers and displays smoothly.

## 6.3. Scenario 3: POS with Multi-Printers + QR Digital Menu + Customer Ordering




**Scenario 3 : System** POS with Multi Printers + Qr Digital Menu + Order
- customers view **Qr digital menu** with mobile phones, display stands, ...
- **USB** Printer : used for Customer receipt
- **Network** Printer(s) : used for Chefs Kitchen Tickets
- Tv Notification engaged from Chefs helper.

This scenario extends the POS and multi-printer setup by adding **QR Digital Menus** and optional **customer self-ordering**. Customers connect to the restaurant's **local Wi-Fi network** (offline, no internet required) and scan a QR code to access the interactive menu. Orders placed by customers are always **validated by a waiter or cashier** before being dispatched to the kitchen.

## *Workflow*

### Step 1 – QR Digital Menu Access & Customer Ordering (Optional)

- Customers connect to the restaurant's **offline Wi-Fi network**.
- A **QR code** is placed on each table (with **table name and unique table code**) or on a **takeaway code** for to-go orders.
- Scanning the QR code opens the **digital menu** on the customer's smartphone.
- **Language & Currency**: The menu language and currency are **defined by the administrator** in system settings (not selectable by the customer).
- **Network Requirement**: The restaurant must provide a **stable Wi-Fi network** capable of handling all customer devices connected simultaneously.
- Customers may select items directly from the QR menu.
- The system records the order with the **table code** to identify the source.
- The order is marked as **"pending validation"** and does not go directly to the kitchen.

### Step 2 – Waiter Validation (Mandatory)

- A waiter or cashier reviews all customer-submitted orders on a **tablet, mobile device, or POS terminal**.
- The waiter checks item availability, adjusts if necessary, and validates the order.
- Only after **staff validation** does the order become "active" and move to the kitchen workflow.

### Step 3 – Kitchen Preparation (like Scenario 2)

- Once validated, orders are automatically dispatched:
  - The **USB printer** can print the customer receipt (if payment is immediate).

- **Network printers** print the kitchen tickets directly in the correct section (Grill, Pizza, Drinks, etc.).
- Chefs start preparing based on the printed tickets.

**Step 4 – Chef Helper & Notifications**

- Kitchen staff use the **Chef Helper station** (touchscreen PC/tablet) to validate when items are ready.
- Order status updates in real time and is shown:
  - On the **TV notification screen** for waiters and/or customers.
  - On the customer's **digital menu screen** (if ordering was enabled).

***Customer Order Tracking Option***

- Customers can track their order status in the **"Tracking" tab** of the QR digital menu:
  - **Created** → Order placed by customer.
  - **Validated** → Confirmed by waiter/cashier.
  - **Ready** → Prepared and ready for pickup/serving.
- Customers can also enable **notifications** on their phone to get an alert when the order is ready.

***Serving or Pickup***

- In **table-service restaurants**, waiters deliver the order to the customer.
- In **self-service/fast-food setups**, customers collect their order when the TV screen or mobile notification shows "Ready."

***💡 Key Advantages of Scenario 3***

- **Stable Wi-Fi Required** – Designed for restaurants with robust wireless networks to support many customers simultaneously.
- **Controlled Workflow** – All customer orders must be validated by staff before reaching the kitchen.
- **Simple Language/Setup** – Menu language and currency are set by the administrator (not customer-selectable).

- **Real-Time Tracking** – Customers can track their order status and get notifications.
- **Flexible Service** – Supports both waiter-service and self-service restaurant models

## 7. QR code Menu Feature

DineSmart allows you to provide customers with an **interactive digital menu** accessible directly from their smartphones via a QR code. See our demo video here:

DineSmart Demo QR code Digital MENU video


### 7.1. How It Works

- A QR code data contains your POS server's fixed IP address (example: http://192.168.1.10).
- Customers connected to your **local restaurant network** (Wi-Fi) can scan the QR code to instantly access the interactive menu.
- If the ordering feature is enabled, they can place orders directly from their device.
- Works **100% offline** without an internet connection.

## 7.2. Generating the QR Code

1. Use any free QR code generator, such as:
   https://www.the-qrcode-generator.com/
2. Enter your POS server's fixed IP address (e.g., http://192.168.1.10).
3. Download the generated QR code image.
4. Print and place the QR code on:
   - Each dining table
   - Menus
   - Walls or display stands near the entrance

## 7.3. Performance & Network Requirements

- Your **Wi-Fi equipment** must be able to handle the maximum number of customers expected to connect at the same time. Use commercial-grade access points for busy restaurants.
- Your **POS PC** should have enough performance (RAM, CPU) to handle multiple simultaneous connections when many customers access the menu at once.

## 7.4. Important Notes

- Ensure that you create a new host in apache **httpd-vhosts.conf** file.
  Head to "D:\wamp64\bin\apache\apache2.4.54.2\conf\extra" and edit the file ***httpd-vhosts.conf*** and past the text bellow on the top before any other existing text.

```
<VirtualHost *:80>

    ServerName dinesmart.com
    ServerAlias dinesmart.com
    DocumentRoot "${INSTALL_DIR}/www/dinesmart"

   <Directory "${INSTALL_DIR}/www/dinesmart /">
       Options +Indexes +Includes +FollowSymLinks +MultiViews
       AllowOverride All
       Require all granted
   </Directory>

</VirtualHost>
```

  Restart WAMP server.

- Ensure your POS server's IP address is **static** and matches the one in the QR code.
- If the IP changes, you must generate a **new QR code**.
- The QR menu feature depends entirely on **local network stability**; internet connection is not required.

# 8. Support Policy

## 8.1. Standard Support (Regular License Buyers)

**Duration:** 6 months of free support from the date of purchase.

✅ **Included:**

- Installation assistance (if documentation is unclear).
- Bug fixes and troubleshooting related to DineSmart.
- Answering questions about system features and usage.

❌ **Not Included:**

- **Menu creation and data entry** (this is available as a **paid service on request**).
- Server/Network setup for clients.
- Training for restaurant staff.
- Windows operating system issues (viruses, crashes, or unrelated dysfunctions).
- Custom feature development or software modifications.

**Availability:**

- Installation help and bug fix support is available daily (except Fridays) between 08:00 – 22:00 (GMT +1).

## 8.2. Premium Support (Extended License Buyers)

- **Availability:** 24/7 daily support until the system is stable.
- **Priority Handling:** Extended License clients receive priority in support requests, ensuring faster response and dedicated assistance.

- **Scope:** Includes installation help, bug fixing, and technical guidance for deployment in large-scale environments.

## 8.3. How to Request Support

- Send your request on envato plateform or send them via email:

  supp.dinesmart@gmail.com

- For other requests, please Include your **purchase code** and **company name** with clear description of the issue.