**Deployment Documentation**

**INTRODUCTION**

The Sales and Inventory System is a computer program that helps businesses manage their products, stocks, and sales easily and quickly. It replaces the old way of using paper or spreadsheets, which takes more time and can cause mistakes. The system has a login feature so that only authorized users can use it. It can also create reports about sales and stock levels. This helps business owners and employees make better decisions about when to restock, change prices, or remove products that are not selling well. Overall, the system makes daily work faster, more organized, and improves customer service.

The goal of this deployment is to install and set up the Sales and Inventory System so it can be used in the business. It aims to make sure that all parts of the system like tracking sales, checking stock, and making report work properly. It also ensures that users can log in safely and use the system without problems.

The scope of the deployment includes a full deployment, meaning the system will be installed on all business computers. It also includes setting up the database, adding user accounts, and checking that everything works correctly. This will make sure that both Admin and Cashier users can use the system for daily sales and inventory tasks.

**DEPLOYMENT PLAN**

The deployment plan explains how the Sales and Inventory System will be installed and made ready for use. The main strategy is to install the system step by step to make sure everything works correctly before it is fully used by the business. First, the system will be set up on one computer to test all its features, such as logging in, adding products, checking stock, and generating sales reports. After the test shows that the system is working properly, it will be installed on all other computers used by the business.

Before deployment, backups of important files will be made to avoid data loss. The team will also prepare user accounts, train the users, and check if the system connects properly to the database. Once all tests are successful, the system will be fully launched for daily use.

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| --- | --- | --- | --- | --- |
| Phase | Description | Start Date | End Date | Status |
| Pre-Deployment | Preparing the environment, configuring settings | 08/16/2025 | 09/27/Y2025 | Completed |
| Deployment | Installing and setting up the system | 9/20/2025 | 10/01/2025 | Completed |
| Post-Deployment | Testing, monitoring, and support | 10/10/2025 | 10/19/2025 | Completed |

**DEPLOYMENT ENVIRONMENT**

The deployment environment includes all the hardware and software needed to make the Sales and Inventory System work properly. It describes the computers, network setup, and programs required for the system to run smoothly.

Hardware Requirements

Server Computer:

Processor: Intel Core i3

Memory (RAM): 4 GB

Storage: 123 GB HDD or SSD

Client Computer:

Processor: Intel Core i3

Memory (RAM): 4 GB

Storage: 123 GB or more

Display: Minimum 1366×768 resolution

Other Equipment:

Printer for receipts or reports

Barcode scanner (optional)

Software Requirements

Operating System: Windows 10 or higher

Database: Microsoft SQL Server

Programming Language: Visual Basic .NET (VB.NET)

Framework: .NET Framework 4.7.2 or higher

Other Software:

Microsoft Visual Studio (for development and maintenance)

Microsoft Office (for report export and documentation)

Hosting Information

The system will use a local server setup, meaning it is installed and run within the business location. The database and application files are stored on the main server computer and accessed through the local area network (LAN).  
No internet or cloud hosting is required, which helps improve security and makes the system faster for daily use.

**DEPLOYMENT PROCEDURES**

This section explains the step-by-step process of deploying the Sales and Inventory System. It includes all the activities before, during, and after deployment to make sure the system works properly and is ready for daily use.

**4.1 Pre-Deployment Steps**

Before installing the system, several preparations must be completed to ensure a smooth deployment:

Backup existing data (if applicable):  
Save all important files and records to avoid data loss during installation.

Set up the required environment:  
Install the needed software such as SQL Server, .NET Framework, and Visual Studio if not already available.

Configure the database:  
Create a new database in SQL Server and import the system’s database script or backup file.

Check network connectivity:  
Make sure all computers (Admin and Cashier) are connected to the same local network.

Verify system compatibility:  
Confirm that all hardware meets the required specifications and that the operating system is updated.

**4.2 Deployment Execution**

These steps are done during the actual installation and setup of the system:

Deploy application files:  
Copy or install the Sales and Inventory System application to all designated computers.

Configure system settings:  
Set up database connections, adjust paths, and ensure that the connection string points to the correct SQL Server database.

Perform system initialization:  
Run the system for the first time, log in as Admin, and check if the main features (login, sales, inventory, and reports) are working.

Check for errors:  
Fix any missing files, connection issues, or configuration problems before proceeding.

**4.3 Post-Deployment Steps**

After the system is successfully deployed, the following tasks are done to ensure stability and usability:

Verify functionality with test cases:  
Test all major features such as adding products, recording sales, and generating reports to confirm everything works correctly.

Monitor system performance:  
Observe the system’s speed, response time, and data accuracy during use.

Conduct user training:  
Train Admin and Cashier users on how to log in, use the system, and handle common issues.

Provide technical support:  
Offer assistance to users if they encounter any problems during the first few days of system use.

**USER TRAINING & SUPPORT**

The User Training and Support section explains how users will be trained to use the Sales and Inventory System and where they can get help if they face problems. Proper training and support ensure that users can use the system confidently and correctly.

Training Schedule for Users

Before the system is fully used, training sessions will be given to all users. These sessions will help them understand how to use the system, handle daily transactions, and generate reports.

Documentation or Manuals Provided

To help users operate the system easily, the following materials will be provided:

User Manual: Step-by-step guide on how to use all system features.

Quick Start Guide: Short reference with screenshots for common tasks.

FAQ Sheet: List of common questions and solutions.

Support Contact Details for Troubleshooting

If users experience problems or errors while using the system, they can contact the support team for help.

Support Team: System Developer / IT Support

Email: SaleandInventory@gmail.com

Phone: 09089279846

Availability: Monday to Friday, 9:00 AM - 5:00 PM

The support team will handle system issues, provide troubleshooting assistance, and update the system if necessary.

**RISKS & CONTINGENCY PLAN**

The Risks and Contingency Plan identify possible problems that might occur during or after the deployment of the Sales and Inventory System. It also explains how these problems can be prevented or solved quickly to reduce their impact on business operations.

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| Risk | Impact | Mitigation Strategy |
| Server downtime | High | Ensure backup servers and notify users in advance |
| Database connection failure | Medium | Test database connectivity before deployment |
| User resistance | Low | Provide training and support |
| |  | | --- | | Data loss or corruption |  |  | | --- | |  | | High | Regularly back up the database and store copies in a secure location. |
| |  | | --- | | Software bugs or errors |  |  | | --- | |  | | Medium | |  | | --- | |  |  |  | | --- | | Perform system testing before full deployment and apply fixes immediately. | |
| |  | | --- | | Hardware failure |  |  | | --- | |  | | Medium | |  | | --- | |  |  |  | | --- | | Check all hardware before deployment and keep spare units if possible. | |
| |  | | --- | | Power interruption |  |  | | --- | |  | | Low | Use an Uninterruptible Power Supply (UPS) to prevent sudden shutdowns. |

**DEPLOYMENT VERIFICATION & SIGN-OFF**

The Deployment Verification and Sign-off section confirms that the Sales and Inventory System has been successfully installed, tested, and is ready for full use. All important functions, such as login, sales transactions, inventory updates, and report generation, have been tested and verified to work properly.

Testing showed that:

* The system installs and runs smoothly on all designated computers.
* Database connections are stable and functioning correctly.
* Sales and inventory modules record and update data accurately.
* Reports are generated correctly and match the stored data.
* User login and access permissions work as expected.

All identified issues during testing were fixed before the final deployment. The system is now considered stable and ready for daily operations.

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| Stakeholder | Role | Signature | Date |
| Name | Project Manager |  |  |
| Kapena Coffee Shop | Client Representative |  |  |