

FEBRUARY						
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## Topic:- Stock Management System

January 2019

Tuesday

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Week - 1 (Project planning & Requirement Gathering)

13th Jan, 2025

Project Topic finalized

Chose 'Stock management system' as the major project due to its practical relevance and real-world applications in businesses and retail management.

Wednesday

2

14th Jan, 2025

Initial Research & literature Review

Studied existing stock management systems and their features.

Analyzed limitations in manual stock tracking methods and explored how digital systems improve accuracy and efficiency.

January 2019

3

Thursday

15<sup>th</sup> Jan, 2025

Defined Project Scope and objectives.

Drafted the project goals: maintain stock records, monitor inventory levels,

Generate alerts and simplify report generation.

Outlined project scope & limitations.

4

Friday

16<sup>th</sup> Jan, 2025

Feasibility Study

Conducted a feasibility analysis (Technical, Operational, Economic) to ensure project viability.

Confirmed that resources and technical requirements are available.

DECEMBER						
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FEBRUARY						
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January 2019

Saturday

5

18th Jan, 2025

## Synopsis Preparation

Prepared details of synopsis including title, objective, scope, methodology, tools and expected outcomes.

Sync'd

19.01.25

Week - 2

Sunday

6

20th Jan 2025

## Synopsis Review & Approval

Submitted synopsis to project guide and discussed initial feedback.

Quickly approved the project for development with minor suggestions.

**January 2019**



**Monday**

21<sup>st</sup> Jan, 2025

## Requirement Analysis

Identified functional requirements (user login, product management, reports, etc)

and non-functional requirements (usability, performance).

**8**

**Tuesday**

22<sup>nd</sup> Jan, 2025

## SRS document creation

Drafted System Requirements Specification document covering system features, environment, user characteristics

and design constraints.

FEBRUARY						
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January 2019

Wednesday



24th Jan 2025

## Use case diagram

Created Use Case Diagram to visualize system interactions such as Admin login, manage stock, Generate Reports, etc.

Purpose :- Represents diff. users interacting with the system and the function they perform.

Actors :- User, Admin, Supplier, Customer, Stock, etc.

• Admin (Primary user)

Thursday

10

Use Cases :-

- Login
- Receive Stock Alerts
- Add/View/Edit/Delete Products
- Logout
- Manage Suppliers
- Add Purchase Entry
- Add Sales Entry
- Generate Reports

January 2019

11 Friday

25<sup>th</sup> Jan, 2025

2018		December										
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## Data flow Diagrams

Designed DFD Level 0 and Level 1 to represent flow of data between system components.

### Level 0 DFD (Context Level)

Purposes :- High level representation of system and external entities.

12 Saturday

#### Entities :-

- Admin
- Suppliers
- Customers.

Processes :- Stock management System

#### Diagram Plan :-

Admin → Stock management System ←  
Suppliers / customers.

System interacts with Admins for all actions and receives input / output from suppliers and customers.

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January 2019

Sunday

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## Level I DFD

### Processes :

1. Login Process
2. Product management
3. Purchase management
4. Sales management
5. Report Generation
6. Stock Alert System

### Data Stores

- Product DB
- supplier DB
- Sales DB
- Purchase DB

Monday

14

### Flow :-

Admin → Login Process → User Session.

Admin → Product Management ↔ Product DB

Admin → Purchase Management ↔ Purchase DB / Supplier DB

Admin → Sales management ↔ Sales DB / Product DB

Admin → Report Generation ← Purchase / Sales DB

Admin → Stock Alert System ← Product DB

January 2019

15

Tuesday

Week - 9

28<sup>th</sup> Jan. 2025

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## ER Diagram

Designed ER Diagram to represent database entities like products, categories, sales, purchases, and their relationships.

### Entities & Attributes

#### 1. Product

- ProductID (PK)
- Product Name
- CategoryID (PK)
- Quantity
- Price.

16

Wednesday

#### 2. Category

- CategoryID (PK)
- CategoryName

#### 3. Supplier

- SupplierID (PK)
- SupplierName
- Contact
- Address.

FEBRUARY						
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January 2019

Thursday

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#### 4. Purchase

- PurchaseID (PK)
- ProductID (PK)
- SupplierID (PK)
- Quantity
- PurchaseDate
- InvoiceNumber

#### 5. Sales

- SalesID (PK)
- ProductID (PK)
- Quantity
- SalesDate
- Bill number

#### 6. Admins / User

- UserID (PK)
- Username
- Password

#### Relations :-

- Category has many Products
- Supplier linked with multiple Purchases
- Products involved in many sales & Purchases.

Friday

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January 2019

19 Saturday

29th Jan, 2025

2018 DECEMBER						
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## Tools & Technology Selections

Finalized development stack: PHP for backend, MySQL for database, HTML/CSS/JS for frontend, and XAMPP for local server setup.

20 Sunday

30th Jan, 2025

## Design Review

Reviewed all analysis and design diagrams with guide and made improvements based on feedback.

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January 2019

Monday

31

31st Jan, 2025

## Database Schema Design

Designed Tables :-

- Products      - Categories      - Users      - Suppliers
- Sales      - Purchases

Defined Primary / Foreign keys and constraints.

Tuesday

22

1st Feb, 2025

## MySQL Table Creation

Implemented schema in MySQL and created necessary tables as with appropriate datatypes and relationships.

January 2019

23

Wednesday

3rd Feb., 2025

Week - 4

2018 DECEMBER						
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## Environment Setup

- Installed XAMPP for local development.
- Configured Apache and MySQL services.

24

Thursday

4th Feb., 2025

## Admin login Module

- Developed secure login functionality using PHP sessions.
- Validate credentials from MySQL database.



January 2019

Friday

25

5th Feb, 2025

## Dashboard Design

Created a simple and clean dashboard layout for admin navigation.

Added links for managing products, purchases, and sales.

Saturday

26

6th Feb, 2025

## Frontend - Back end Integrations

Connected frontend forms with backend PHP Scripts and database to ensure data is fetched and updated correctly.

January 2019

27 Sunday

Feb, 2025

Module Testing

2018 DECEMBER						
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28 Monday

2019 FEBRUARY

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January 2019

Tuesday

29

8th Feb, 2025

## Stock Management - Add Product

- Developed module to add new stock items with fields like product name, category, quantity, price, etc.

Week - 5

Wednesday

30

10th Feb, 2025

## Update & Delete Product

Enabled Product update & delete features.

Added Data Validation and confirmation alerts.

January 2019

31 Thursday

12th Feb. 2025

### View stock Module

Created a tabular view of all current stock items with filters by category or quantity.

13<sup>th</sup> Feb, 2025

### Category Management

Developed add/ edit / delete functionality for Product categories.

2019 MARCH

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February 2019

Friday

1

15th Feb, 2025

## Supplier Management

- Added supplier registrations and management module.
- linked purchases with Suppliers.

Sonati  
16.02.25

Week - 6

17th Feb, 2025

Saturday

2

## UI Enhancement

- Improved form Design using Bootstrap for responsive layout.
- Added icons and styling to navigation.

February 2019

3

Sunday

18<sup>th</sup> Feb, 2019

## Unit Testing.

Individually listed each module for functionality, error handling, and edge cases.

4

Monday

Laptop

laptop

Assigned to Dinesh

Received training report

Worked on the existing code and bug fix

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February 2019

Tuesday

5

19<sup>th</sup> Feb

### Purchase Module Development

Created interface to add Purchase records, update stock, and associate supplier and invoice number.

20<sup>th</sup> Feb

### Invoice Management

Added Purchase invoice records with invoice number and Purchase date.

Wednesday

6

February 2019

7

Thursday

20<sup>th</sup> Feb, 2025

## Sales Module Development

Developed sales entry form to record product sales and auto - update stock.

8

Friday

21<sup>st</sup> Feb, 2025 (Purchase - Stock integration)

Purchase - stock update automatically on purchase entry.

Suresh  
23-02-25

MARCH						
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February 2019

Saturday



Week - 7

24th Feb, 2025

Auto update stock

Implemented real-time stock update after each sale.

10

Sunday

25th Feb, 2025

Stock Alert System

Developed alerts for low, out-of-stock items.

**February 2019**

**11**

Monday

27<sup>th</sup> Feb, 2025

JANUARY						
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Report generation module  
added filters and logic to generate  
Stock / sales reports.

**12**

Tuesday

28<sup>th</sup> Feb, 2025

Report formats finalized

Finalized Portable Printable formats of  
reports.

MARCH						
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February 2019

Wednesday

13

31st Mar, 2025

Data Validation

Added input validations and error handling in all forms.

Week - 8

Thursday

14

1st Mar, 2025

2025, April 14

Testing Purchase module

Performed internal testing on purchase module.

February 2019

15 Friday

3rd Mar, 2025

## Testing Sales Module

Tested sales workflows and  
invoice generation.

JANUARY						
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16

Saturday

4th Mar, 2025

## Integrations

Tested combined flow from purchase  
to stock to sales.



February 2019

Sunday

17

5th Mar , 2025

Debugging :

Identified and fixed bugs in modules

IP - Audit

Monday

18

6th Mar , 2025

Testing Reports module

Verified accuracy of sales, Purchase  
and stock reports .

February 2019

19 Tuesday

7th Mar, 2025

2019							JANUARY			
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## Performance tuning

Optimized queries and improved UI responsiveness.

20 Wednesday

Week - 9

9th Mar, 2025

Peer code review and corrections.



February 26, 2025

Thursday 21

10<sup>th</sup> Mar, 2025

prepared User Manual with Screenshots

11<sup>th</sup> Mar, 2025

Finalized complete documentation so that we can process the further process. Ahead.

Friday 22

11<sup>th</sup> Mar, 2025

finalized complete documentation so that we can process the further process. ahead.

February 2019

23 Saturday

2019

JANUARY						
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12th March, 2025

Documented test cases and test results.

24 Sunday

13th March, 2025

Uploading final Code and tested deployment log and w/ code.

MARCH						
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29	30	31				

February 2019

Monday

25

14th Mar, 2025

Project review and discussed with the guide.

## Week - 10

17th Mar, 2025

Tuesday

26

Implemented suggested changes and deployed dept developed the correct version of it.

Suruchi  
18.03.25

February 2019

27 Wednesday

18th Mar, 2025

2019		JANUARY	
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Final UG Polich and testing

has done.

28 Thursday

19th Mar, 2025

Prepared presentation slides of my topic so that I can make the examiner understand fully about topic.

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March 2019

Friday

1

20<sup>th</sup> Mar , 2025

Interval Mock presentation session  
of the project is done.

21<sup>st</sup> Mar , 2025

Saturday

2

updated the documentation as per  
the changes made later in the  
code of my project.

March 2019

3

Sunday

22nd Mar, 2025

FEBRUARY						
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Final testing of full system

work flow is done

4

Monday

22nd Mar, 2025

and the project is ready with biological

the first batch has been packed and

delivered to the end user