Synopsis

1. Project Title

Web-Based Pappad Shop Management System

2. Problem Statement

The client currently uses a trade software application only for bill printing and daily sales checking. Customer orders are mostly taken through mobile phone calls, which often leads to miscommunication and missing items. Customers cannot review or edit their orders before confirmation, affecting order accuracy and customer satisfaction.

To address this issue, a web-based ordering system is proposed where customers can select pappad items, edit quantities, and submit orders on their own. The submitted order generates a bill that is directly received by the shop, enabling accurate order processing and efficient delivery to customers across different districts.

3. Objectives

- To maintain accurate stock and inventory details
- To simplify billing and order management
- To reduce manual work and minimize human errors
- To store customer and sales data securely and efficiently

4. Scope of the System

- Admin login and authentication
- Product management (different types of pappads)
- Customer order management
- Online billing and invoice generation
- Sales and report generation
- System accessible through web browsers

5. Existing System & Drawbacks

5.1 Existing System

- Stock details are maintained manually
- Bills are generated using a trade software (machine billing)
- The software is mainly used for bill printing and daily sales checking
- Customer orders are received through mobile phone calls

5.2 Drawbacks

- Manual order taking leads to miscommunication and missing items
- No direct customer interaction system
- Customers cannot review or edit their orders
- Difficulty in managing and confirming orders for different districts
- Increased chances of order errors and customer dissatisfaction

6. Proposed System & Advantages

6.1 Proposed System

The proposed system is a web-based application where customers can place pappad orders by selecting items and quantities on their own. After submission, the order and bill are directly received by the shop for processing and delivery. The system supports product management, order handling, billing, and reports through a web browser, with all data stored securely in a centralized database.

6.2 Advantages

- Accessible from any internet-enabled device
- Accurate and faster order processing and billing
- Reduced order mistakes and manual effort
- Secure data storage

- Better control over orders and business operations

7. Technology Stack

7.1 Frontend

- HTML
- CSS
- JavaScript
- Bootstrap

7.2 Backend

- Java (Servlets / Spring Boot)
- MongoDB
- Apache Tomcat
- MongoDB Java Driver

8. Feasibility Study

8.1 Technical Feasibility

The proposed system is technically feasible as it uses widely available and proven technologies such as HTML, CSS, JavaScript, Java (Servlets / Spring Boot), MongoDB, and Apache Tomcat. The required hardware and software resources are easily available, and the system can be developed and deployed using existing technical knowledge.

8.2 Economic Feasibility

The system is economically feasible as it is developed using open-source technologies and does not require additional hardware expenditure. Automating order management and improving accuracy reduce manual effort and operational costs, making it suitable for small and medium pappad shop businesses.

8.3 Operational Feasibility

The system is user-friendly and requires minimal training for shop staff and customers. Daily operations such as order processing, billing, and report generation can be performed easily through a web browser, ensuring smooth adoption in the shop environment.