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Introduction

Kalori Limited is a rapid expanding consumer electronics retailer operating 30 physical stores alongside a growing e-commerce platform. While the organisation has experienced significant sale growth over the past year, its operational infrastructure has not kept pace with this expansion. The company currently relies on outdated, fragmented, and largely manual information system, resulting in inefficiencies that undermine customer satisfaction, operational performance, and strategic decision-making. These Challenges are particularly evident in inventory management, customer relationship management (CRM), reporting processes, data governance, and cross-departmental integration.

The company's Manual inventory tracking system frequently produces discrepancies between online and instore stock levels, leading to customer dissatisfaction, refund requests, and lost sales opportunities. Customer data is dispersed across multiple unconnected system, preventing the marketing and customer service teams from delivering personalised and efficient service. Decision-making is hindered by slow, error-prone reporting processes that rely heavily on spreadsheets. Furthermore, the organisation is not fully compliant with data protection regulations such as General Data Protection Regulation (GDPR), exposing it to legal and financial risks (Kuner, 2020). Finally, the lack of integration across departments forces employees to manually transfer data, increasing workload and the likelihood of errors.

This report evaluates Kalori Ltd.'s existing information systems, identifies key inefficiencies, and proposes the implementation of an integrated Enterprise Resource Planning (ERP) and Customer Relationship Management (CRM) system. The proposed solution aims to streamline operations, enhance data accuracy, support real-time decision-making, and ensure regulatory compliance. The report concludes with an implementation plan and a summary of expected benefits.

Evaluation of Existing Systems

Overview of current information systems

Kalori Ltd.'s information systems landscape is characterized by fragmentation, manual processes, and limited automation. The organisation currently uses:

- **Manual Inventory Tracking** through spreadsheets and paper logs.
- **Basic point-of-sale (POS) systems** in physical stores.
- **A standalone e-commerce platform** with limited integration to store systems.
- **Multiple CRM tools** used inconsistently across marketing and customer support.
- **Spreadsheet-based reporting** for sales, finance, and forecasting.
- **Department-specific software** for finance, sale, and inventory, none of which communicate with each other.

This combination of outdated and disconnected systems is typical of organisation systems (Laudon & Laudon, 2022).

Inefficiencies and Gaps in the Existing Systems

Inventory Management Challenges

The manual inventory system is one of the most significant sources of inefficiency. Manual processes are inherently prone to human error, leading to inaccurate stock records (Stair & Reynolds, 2020). These inaccuracies result in:

- Manual stock tracking leads to **frequent discrepancies** between online and in-store availability.
- Customers often place orders for items that appear available online but are out of stock.
- Store managers lack visibility of stock levels across locations, resulting in **overstocking, understocking, and lost sales.**
- Manual reconciliation is time-consuming and prone to human error.

In retail environments, real-time inventory visibility is essential for maintaining customer satisfaction and operation efficiency (Monk & Wagner, 2018). Kalori Ltd.'s current system fails to provide this visibility.

Fragmented Customer Data

Customer information is stored across multiple disconnected systems, preventing the organisation from developing a unified view of customer behaviour. This fragmentation limits the effectiveness of marketing campaigns and customer service operations. According to Payne and Frow (2017), integrated CRM systems are essential for

delivering personalised customer experiences and building long-term customer relationships. Kalori Ltd.'s inability to track purchase history or customer interactions undermines its competitiveness in a market where personalisation is increasingly expected.

Inefficient Reporting and Decision-making

The organisation's reliance on spreadsheets for reporting introduces delay and inaccuracies. Manual data entry is time-consuming and susceptible to error, which can distort financial and operational insight (O'Brien & Marakas, 2018). Without real-time reporting capabilities, management struggles to identify trends, forecast demand, or respond quickly to market changes. Business intelligence (BI) tools integrated within modern ERP systems can significantly enhance decision-making by providing real-time analytics (Turban et al., 2018)

Data Protection and Security Risks

Kalori Ltd.'s Current system lacks secure access controls, audit trails, and centralised data governance. These weaknesses increase the risk of unauthorised access to customer data, potentially violating GDPR requirement. GDPR mandates strict controls over personal data, including secure storage, access restrictions, and the ability to demonstrate compliance (European Commission, 2023). Failure to comply can result in substantial fines and reputation damage.

Lack of System Integrated

The absence of integration between sales, finance, inventory, and customer service systems forces employees to manually transfer data between departments. This not only increases workload but also introduces errors and delays. Integrated system are essential for streamlining workflows and ensuring data consistency across the organisation (Bocijet al., 2019). The current siloed structure prevents Kalori Ltd. From achieving operational efficiency.

Impact on Business Performance

The combined effect of these inefficiencies is significant. Kalori Ltd. Faces:

- Reduce customer satisfaction and increased complaints
- Finances losses due to stock mismanagement.

- Missed marketing opportunities
- Slow organisational growth due to poor forecasting.
- Increased operational costs.
- Legal risks associated with non-compliance

Recommended Solution

Proposed information System: Integrated ERP and CRM Solution

To address Kalori Ltd challenges, the recommended solution is the implementation of a **cloud-based Enterprise Resource planning (ERP) system integrated with a Customer Relationship Management (CRM) platform**. A Suitable option would be system such as **Microsoft Dynamics 365, SAP Business one, or Oracle NetSuite**, which offer modular, scalable solutions tailored for operations.

Key Components of the Recommended system

Inventory Management Module

A modern ERP system provides real-time inventory tracking across all stores and online channels. Key features include:

- Real-time stock tracking across all stores and online channels.
- Automated stock updates when sales occur.
- Low-stock alerts and automated reordering.
- Centralised visibility for all store managers.

Real-time inventory management is essential for improving customer satisfaction and reducing operational cost (Laudon & Laudon, 2022)

Integrated CRM System

The CRM component will consolidate customer data into single database accessible across departments. Benefit includes:

- Unified customer database accessible across departments.
- Tracking of purchase history, preferences, and interactions.
- Tools for personalised marketing campaigns.
- Improved customer service through complete case histories.

Business Intelligence and Reporting Tools

Modern ERP systems include BI tools that provide:

- Real-time dashboards for sales, inventory. And financial performance.
- Automated report generation.
- Predictive analytics for demand forecasting.

Finance and Accounting Integration

The finance module will automate the flow of data from sales and inventory systems, improving accuracy and efficiency. Features include:

- Automated sales-to-finance data flow.
- Accurate financial reporting and auditing.
- Streamlined invoicing and payment tracking.

Integrated financial systems reduce errors and support compliance with accounting standards (Stair & Reynolds, 2020)

GDPR-Compliant Data Management

The recommended system will include:

- Role-based access controls.
- Secure cloud storage with encryption.
- Automated data retention and deletion policies.

These features support GDPR compliance and reduce risk of data breaches (European Commission, 2023)

Justification for the Recommended System

Alignment with Business Needs

The ERP-CRM combination directly addresses Kalori Ltd.'s operational pain points by providing a unified platform for inventory, sales, finance, and customer data.

a. Improved Efficiency

- Automation reduces manual work and human error.
- Real-time data improves accuracy and responsiveness.
- Integrated workflows streamline order fulfilment and reporting.

b. Scalability

Cloud-based ERP systems scale easily as the company expands to new stores or markets.

c. Cost-Effectiveness

Although initial investment is required, long-term savings come from:

- Reduce labour costs.
- Fewer stock losses.
- Improved sales through better forecasting and marketing.

d. Enhanced Decision-Making

Real-time analytics empower managers to make informed decisions quickly.

e. Improved Customer Satisfaction

Accurate stock information, personalised marketing, and efficient customer service enhance the customer experience.

Implementation Plan

Implementation Steps

Step 1: Requirement Analysis

Conduct workshops with all departments to define system requirements. This ensures that the system aligns with business needs and supports existing workflows (Laudon & Laudon, 2022).

Step 2: System Selection

Evaluate ERP vendors based on cost, scalability, integration capabilities, and user-friendliness. Vendor demonstrations and pilot testing can support informed decision-making.

Step 3: Data Migration

Clean and consolidate customer, inventory, and sales data. Data migration is a critical step that requires careful planning to avoid data loss or corruption (Stair & Reynolds, 2020).

Step 4: System Configuration

Customise modules to match Kalori Ltd.'s workflows. Configure user roles, permissions, and security controls to support GDPR compliance.

Step 5: Integration with Existing Infrastructure

Integrate the ERP system with POS systems, the e-commerce platform, and finance tools. Integration ensures seamless data flow across departments (Monk & Wagner, 2018).

Step 6: Staff Training

Provide training sessions for store managers, marketing teams, finance staff, and customer service representatives. Training is essential for successful system adoption (Bocij et al., 2019).

Step 7: Testing and Quality Assurance

Conduct system testing, including:

- User acceptance testing (UAT)
- Performance testing
- Security testing

Step 8: Go-Live and Monitoring

Launch the system in Phases, pilot store before full rollout.

Monitor performance and resolve issues promptly.

Potential Challenges and Mitigation Strategies

Resistance to Change

Employees may resist adopting new systems. This can be mitigated through effective communication, training, and involvement in the implementation process (O'Brien & Marakkas, 2018)

Data Migration Issues

Data migration can be complex and error prone. Thorough data cleaning and test migrations can reduce risks (Stair & Reynolds, 2020).

Integration Complexity

Integration multiple systems can be challenging. Using experienced IT consultants and ensuring vendor support can mitigate this risk (Monk & Wagner, 2018).

Cost Overruns

ERP projects can exceed budgets if not managed carefully. Phased implementation and strict project management can help control costs (Turban et al., 2018).

Temporary Disruption

System rollout may temporarily disrupt operations. Scheduling implementation during low – sales periods and maintaining backup systems can reduce disruption.

Conclusion

To conclude, Kalori Ltd rapid growth has exposed significant weakness in its current information systems. Manual processes, fragmented data, and lack of integration are hindering operational efficiency, customer satisfaction, and strategic decision-making. To overcome these challenges, the implementation of a cloud-based ERP system integrated with a CRM platform is strongly recommended to address these challenges.

The recommended solution will provide real-time inventory visibility, unified customer data, automated reporting, and secure, GDPR-compliant data management. By streamlining operations and enabling data-driven decision-making, Kalori Ltd. Will be better positioned to scale sustainably, improve customer experience, and maintain a competitive edge in the consumer electronics market.

References

Bocij, P., Greasley, A. and Hickie, S. (2019) *Business Information Systems: Technology, Development and Management for the Modern Business*. 6th edn. Pearson.

European Commission (2023) *General Data Protection Regulation (GDPR)*. Available at: <https://gdpr.eu/> (Accessed: (2025)).

Kuner, C. (2020) *Transborder Data Flows and Data Privacy Law*. 2nd edn. Oxford University Press.

Laudon, K.C. and Laudon, J.P. (2022) *Management Information Systems: Managing the Digital Firm*. 17th edn. Pearson.

Monk, E. and Wagner, B. (2018) *Concepts in Enterprise Resource Planning*. 4th edn. Cengage Learning.

O'Brien, J.A. and Marakas, G.M. (2018) *Management Information Systems*. 11th edn. McGraw-Hill.

Payne, A. and Frow, P. (2017) *Strategic Customer Management: Integrating Relationship Marketing and CRM*. Cambridge University Press.

Stair, R. and Reynolds, G. (2020) *Principles of Information Systems*. 13th edn. Cengage Learning.

Turban, E., Pollard, C. and Wood, G. (2018) *Information Technology for Management: On-Demand Strategies for Performance, Growth and Sustainability*. 11th edn. Wiley.