

THE STATE UNIVERSITY OF ZANZIBAR



**DEPARTMENT OF INFORMATION TECHNOLOGY
AND COMPUTER SCIENCE
TUNGUU MAIN CAMPUS**

COURSE CODE: INF 1202
COURSE NAME: ENTERPRISE RESOURCE PLANNING
TYPE OF WORK: GROUP ASSIGNMENT
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Questions

1. Mention one example of intergraded information systems and shortly describe how it works.
2. What are the roles and benefits of intergraded information systems to an organization?
3. What are the challenges of intergraded information systems?

Submission date : 3rd May 2024

Intergraded information system, also known as intergraded management system or an enterprise resource planning (ERP) system, is a comprehensive software solution that combines various business functions and processes into single unified system. It allows organization to streamline their operations, improve efficiency and enhance decision making by integrating different departments and functions within organization.

Intergraded information system typically includes modules for different areas such as finance, accounting, human resources, inventory management, supply chain management, supply chain management and more.

Human Resources Information Systems (HRIS): HRIS systems integrate HR-related functions such as employee data management, payroll, benefits administration, recruitment, and performance management. These systems streamline HR processes and enable organizations to effectively manage their human capital. Examples of HRIS systems include Workday, SAP SuccessFactors, and Oracle HCM Cloud.

Intergraded information system plays a crucial role within an organization, the following are roles of intergraded information system within an organization

Data Management: Integrated systems help organizations manage their data more effectively. They consolidate data from various sources and provide a unified view, ensuring consistent and accurate information across different departments and functions. Integrated systems enable efficient data storage, retrieval, and analysis, leading to better decision-making.

Process Automation: Integrated systems automate business processes by streamlining workflows and eliminating manual tasks. They facilitate the seamless flow of information and transactions between different systems, departments, and stakeholders. This automation enhances operational efficiency, reduces errors, and accelerates the speed of business processes.

Enhanced Collaboration: Integrated systems promote collaboration by enabling real-time data sharing and communication across teams and departments. They break down information silos and facilitate cross-functional collaboration, leading to improved coordination, knowledge sharing, and teamwork within the organization.

Cost Optimization: Integrated systems can help reduce costs by eliminating duplication, streamlining processes, and improving resource utilization. By centralizing data and operations, organizations can avoid the need for multiple standalone systems and reduce maintenance and integration efforts. Integrated systems also minimize data inconsistencies, errors, and rework, leading to cost savings in the long run.

Improved Customer Experience: Integrated systems help organizations deliver a superior customer experience by integrating customer-related data and processes. They provide a holistic view of customer interactions, preferences, and history, empowering organizations to provide personalized and timely services. Integrated systems enable seamless customer engagement across various touchpoints, such as sales, marketing, customer support, and e-commerce.

Apart from roles there are benefits of intergraded information system as following

Improved Customer Service: Integrated systems enable organizations to access comprehensive customer information quickly. This facilitates personalized interactions, efficient handling of inquiries and complaints, and a seamless customer experience across different touchpoints.

Data Accuracy and Consistency: Integrated systems eliminate the need for manual data entry and reduce the risk of errors associated with duplicate data sources. By maintaining a single source of truth, organizations can ensure data accuracy and consistency, leading to reliable reporting and analysis.

Cost Savings: While implementing integrated systems may involve upfront costs, they can result in long-term cost savings. By eliminating redundant systems, optimizing processes, and reducing manual work, organizations can lower operational expenses and achieve a higher return on investment (ROI).

Enhanced Productivity: By integrating various systems and processes, employees can access the information they need more quickly and easily. This saves time and allows them to focus on their core tasks, thereby increasing productivity across the organization.

Streamlined Operations: Integrated systems bring together different functions and processes within an organization, enabling seamless information flow and coordination. This streamlining of operations reduces duplication of effort, minimizes manual data entry, and improves overall efficiency.

Improved Decision-Making: Integrated systems provide real-time and accurate data across different departments, enabling better decision-making. With a holistic view of the organization's operations, managers can make informed choices, identify trends, and respond promptly to changes in the business environment.

While integrated information systems bring numerous benefits, they can also present certain challenges for organizations. Here are some common challenges associated with integrated systems as following

Organizational Resistance and Change Management: Implementing integrated systems often involves significant changes to existing processes, workflows, and roles within the organization. Resistance to change from employees who are accustomed to established systems and practices can be a challenge. Adequate change management strategies, training, and communication are crucial to address this challenge effectively.

Security and Data Privacy: Integrated systems consolidate and centralize data from multiple sources, which can increase the risk of security breaches. Organizations must ensure robust security measures are in place to protect sensitive data and prevent unauthorized access. Compliance with data privacy regulations, such as GDPR or CCPA, becomes more complex when dealing with integrated systems.

Complexity: Integrated systems often involve the integration of multiple applications, databases, and processes, which can be complex and challenging to implement and maintain. The complexity of integrating diverse technologies, data formats, and business rules can lead to technical difficulties, compatibility issues, and increased system management overhead.

Cost and Return on Investment (ROI): Integrated systems can involve significant upfront costs, including software licenses, hardware infrastructure, implementation, and training. Organizations must carefully evaluate the cost-benefit ratio and assess the expected return on investment. Additionally, ongoing maintenance, upgrades, and support costs should be considered.

Data Integration and Quality: Integrating data from disparate systems requires careful planning and mapping of data elements. Inconsistent data formats, data duplication, and data quality issues can arise during the integration process. Ensuring data accuracy, consistency, and integrity across different systems can be a significant challenge.

System Compatibility: Organizations may have legacy systems or proprietary software that are not easily compatible with modern integrated systems. Integrating such systems may require additional customization, development, or third-party solutions, leading to increased costs, time, and effort.

Vendor Dependency: Organizations may become dependent on specific vendors or technology providers for the functionality and support of their integrated systems. This dependency can limit flexibility and increase the risk of vendor lock-in, where switching to alternative systems or providers becomes challenging

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