Nama: Pehanta Alpharel Enterprice Resource Planning MPM : DIA220709

Kelas : SA

1.) What is an ERP system?

An Enterprise Resource planning (EPP) system is a comprehensive, integrated software solution designed to manage and streamline an organization's core business processes it acts a rentral hub for data and operations across various departments such as Finance, human resources, manufacturing, supply chain, services, Procurement, and others.

key peatures of ERP systems include

- Centralized database: Store all data from different modules in a single location

- Real-time information: Provides up-to-date data across all integrated bussines spiritions.

- Modular structure: Consists of different modules for Various business functions Eshaff can be implemented individually or as whole

customasation capabilities; can be failured to meet specific Cousiness needs

- Automation: Automates many routine tasks, reducing manual work and potential errors

ERP systems aim to improve operational expiciency, facilitate better decisionanaking, and enhance overall Couriness personnance by parforma providing a Minified view of the organization's activities.

2.) How are ERP systems different from legacy systems?

ERP systems differ from legacy Systems in several significant ways:

Integration:

- ERP systems: offer seamless integration across all business functions, allowing data to flow freely between different departments

- legaly systems: often operate in stow silos, with each department having Its own system that may not communicate effectively with others.

Technology:

- Efp systems: Built on modern, Schlable fechnologies that can be easily updated and expanded they often leverage cloud computing, mobile accessibility, and advanced unaltics.
- legaly Systems: Typically use older, sometimes outdated technologies that may be difficult to maintain or upgrace.



Flexibility

- ERP systems: Highly obstomilable and adaptable to changing lousiness helds they often include configuration fools that allow for modifications without changing the core code

- legacy systems , Europally used and difficult to modify changes often require extensive coding and may disrupt other parts of the systems

Data access:

- EPP systems: provide real-time access to data across the organization, enabling quick decision making and response to market charges.

- legacy systems; may have delays in data updates, leading to information lags and potential decision-making loased on outdated information

User interpace

- ERP systems; usually readure modern, intuitive user interpales that can

be accessed from Vavious delikes

- legacy systems: often have outdated, text-based interpaces that can be dispicult to natingate and use effectively

Scalability;

ERP systems: Designed to grow with the bussiness easily accommodifing increased data volumes and new business processes.

- elegacy systems: may struggle to handle growth often requiring complete Overhauss to manage increased domands

3.) What are advantages and disadvantages of ERD systems?

Advantages:

integration of data and business processes

- Eliminates data siles and redudency

- provides a single Source of thath for all Gusiness information

improves data accuracy and consistency across departments

2. Improved operational expeciency:

- Automates routine facks, reducing manual work and human erfor

Streamlines Caisiness processes, reducing Cottlenecks and delays

trables better resources allocation and utilization



- 3. Better dicision-making based on real-time data
 - Provides comprehensive, up to date insights into business operations
 - @ hables data-dollar decision-making at all levels of the organization
 - Pacilitates paster response to market changes and business challenges
- 4. Standardization of business processes:
 - Implements best practices across the organization
 - Ensures consistency in operations across different departments or locations
 - Simplifies fraining and onboarding or new employees
- 5. Enhanced customer service
 - provides a 360-degree view of austomet interactions and history
 - Enables faster response to customer inquines and issues
 - improves order accurately and delivery times

6.

- 6. Improved regulatory Compliance:
 - Centralize & Sata management, making it easier to meet pegulatory requirements
 - Provides tobust audit trails and reporting Capabilities.
- 7. Scalability:
 - Supports business growth by easily accommodating new processes or increased transaction volumes
 - Pacilitates expansion into new markets or product lines

Disadvantages:

- 2. High implementation and maintenance costs
 - Significant appront investment in software lisences, hardware, and implementation Services
 - orgains costs for maintenance, updates, and Support
 - potential hidden costs such as customization, training and change aroundaries
- 2. Complex and time-consuming implementation processes
 - Can take months or even years to fully implement, depending on the organization's size and complexity
 - may require Significant changes to existing Cousiness processes
 - Can distupt normal business operations during implementation



3. Vendor lock-in:

- once implemented, switching to a different Eff system can extremely and different Ve

- organitations may become dependent on the Vendor for support and updates

4. Employee resistance to change:

- Staff may resist learning new systems and processes

- can lead to decreased productivity during the transition period

- May require extensive framing and change management efforts

S. Coistomization Challenges:

- Extensive customitation can make upgrades difficult and costly

- Over-austomitation may negate some of benefits of using a standardized system

6. Data migration issues:

- Transferring data from legacy systems can be complex and firme-consuming

- Data quality issues may surface during migration, requiring additional Chanup exports

7. Potential por system overload:

- If not properly Sealed, the System may slow down or crash during peak ulage times

- May require ongoing performance tuning and optimization

4.) Flow do ERP System Support industry best practices?

ERP Systems support industry best practices in selleral ways:

1. Embedded beef practices:

- ERP systems are designed based on industry standards and best practices

- they incorporate workflows and processes that have been provon effective accross many organizations

2. Process standarization:

- Enforce consistent processes across the organization, teducing variability and imprilmy effeciency

- Align Cousiness processes with undustry standards, facilitating borchmarking and Continuous improvement



3. Regulatory Comptance.

- include features to help organizations, comply with industry specific regulations (e.g., GDPR for data protection, FDA regulations for phormoceuticus)

- Provide audit trails and reporting Capabolities to demonstrate compliance

4. Industry-specific solutions

- many ERP vendors offer industy-specific Versions of their software, failured for the unique needs of sectors like manufacturing, healthcare refulets.

- These Solutions include features and processes specific to the industrys loss practices

9. Continuous improvement:

- Provide analytics and reporting fools to identify areas for process improvement

- Enable organizations to make measure performances again industry bunchmarks

6. knowledge transper:

- Implement processes loased on the collective experience of many organization in the Same industry

- facilitate the adoption of proven methods and fachniques

7. Scalability and plexibility:

- Allow Organi tation to easily adopt new best practices as they emerge in the industry

- Provide the flexibility to customize Processes while maintaining alignent with inclustry standards

8. Infegration with experging technologies

- modern Eff systems exten integrated with or include capabilities for emerging fechnologies like AI, 10T, and blockchain, enabling organizations to believe fechnologies in line with industry best practices

9. Collaboration and information sharing:

- Facilitate better communication and Collaboration across departments, aligning with best practices for organizational effeciency

- Enable beffer information sharing with supplies and customers, supporting Supply Chain best practices



10. Pisk	minggement:
10	corporate tisk management features aligned with industry best practice volide tools for indentifying, assessing, and mitigating lisks in working
64816	ness processes
By imple	ementing these readures and capabilities, ERP systems not only support
existing	industry best practices but also help organizations stay competitive by them to quickly adopt new practices as they emerge.
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