TEKsystems Global Services

Introduction Enterprise Applications

Functional Concepts

Presented by: Ananda Vardhan Chagamreddy

Date of Presentation: 14-Aug-2020

Enterprise Applications (EA)

- EA is commonly used phrase to describe applications or software that a business would use to assist the organization in solving enterprise problems.
- Software platform that is too large for and too complex for individual or small business use.
- Deployed across variety of corporate networks, intranets or the internet and by meeting strict security requirements and administrative management.
- Supports entire organization and all its departments to lower cost, improve productivity and efficiency in the enterprise.

Types of Enterprise Applications

- Automated Billing System
- Payment Processing
- Email Marketing System
- Customer Relationship Management (CRM)
- Enterprise Resource Planning (ERP)
- Business Intelligence (BI)
- Business Continuity Planning (BCP)
- Enterprise Application Integration (EAI)
- Enterprise Content Management (ECM)
- Enterprise Search
- Enterprise Messaging Systems (EMS)
- Call Center and Customer Support
- Human Resource Management Systems (HRMS)
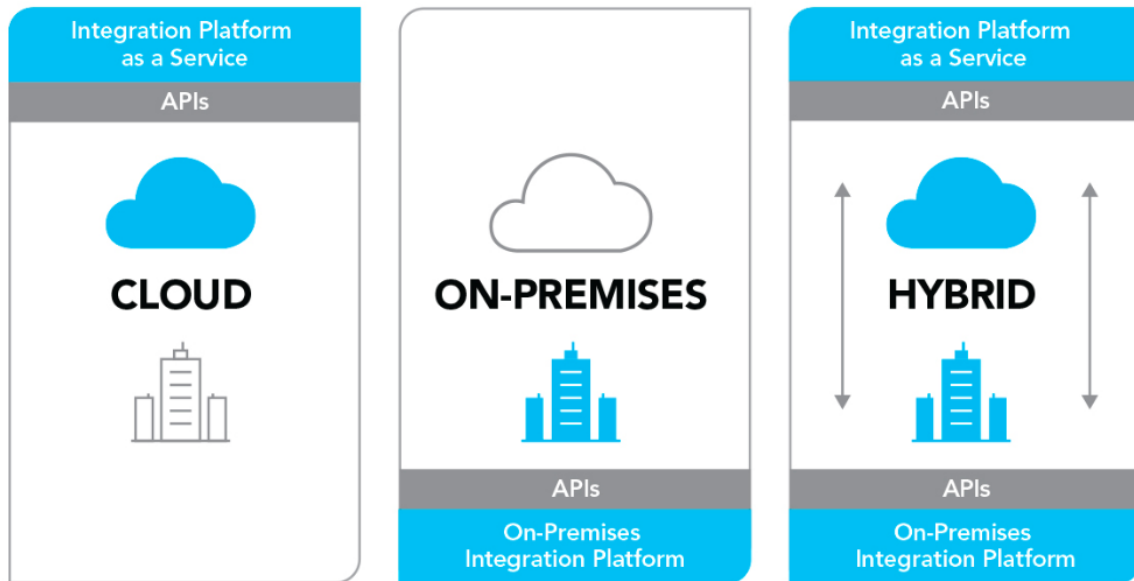
How Enterprise Applications are managed?

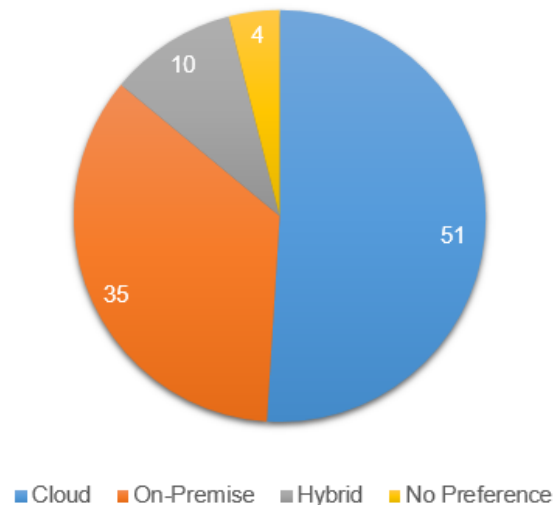| Proprietary Enterprise Apps	• In-house built by specialized IT Development Team

Application Service Providers (ASP)	• More prevalent • Designed by 3rd party ASP • Leased to Enterprise • On-Premise or Hosted service • Often SaaS or Web Based Applications

Types of EA Deployments

CLOUD
Integration Platform as a Service
APIs

ON-PREMISES
Integration Platform as a Service
APIs
APIs
On-Premises Integration Platform

HYBRID
Integration Platform as a Service
APIs
APIs
On-Premises Integration Platform

Industry Interest

- Cloud — 51
- On-Premise — 35
- Hybrid — 10
- No Preference — 4

Source: ERP Trends, Accenture (2019)

Building Enterprise Application (Example)

Typical Mobile App Lifecycle

- Identify Use Case
- Validate Business Process Fitment
- Ascertain User Base (the 5W's)
- Functional design & flow
- Security Considerations
- Platform & Device Selection
- Technical Config & Build
- End-to-End Testing. User Training.
- Deployment

Functional work
Technology work

Enterprise Resource Planning (ERP)

- Financial Management
- Human Resources
- Inventory Management
- Supply Chain Management
- Business Intelligence
- Customer Relationship Management
- Distribution Management
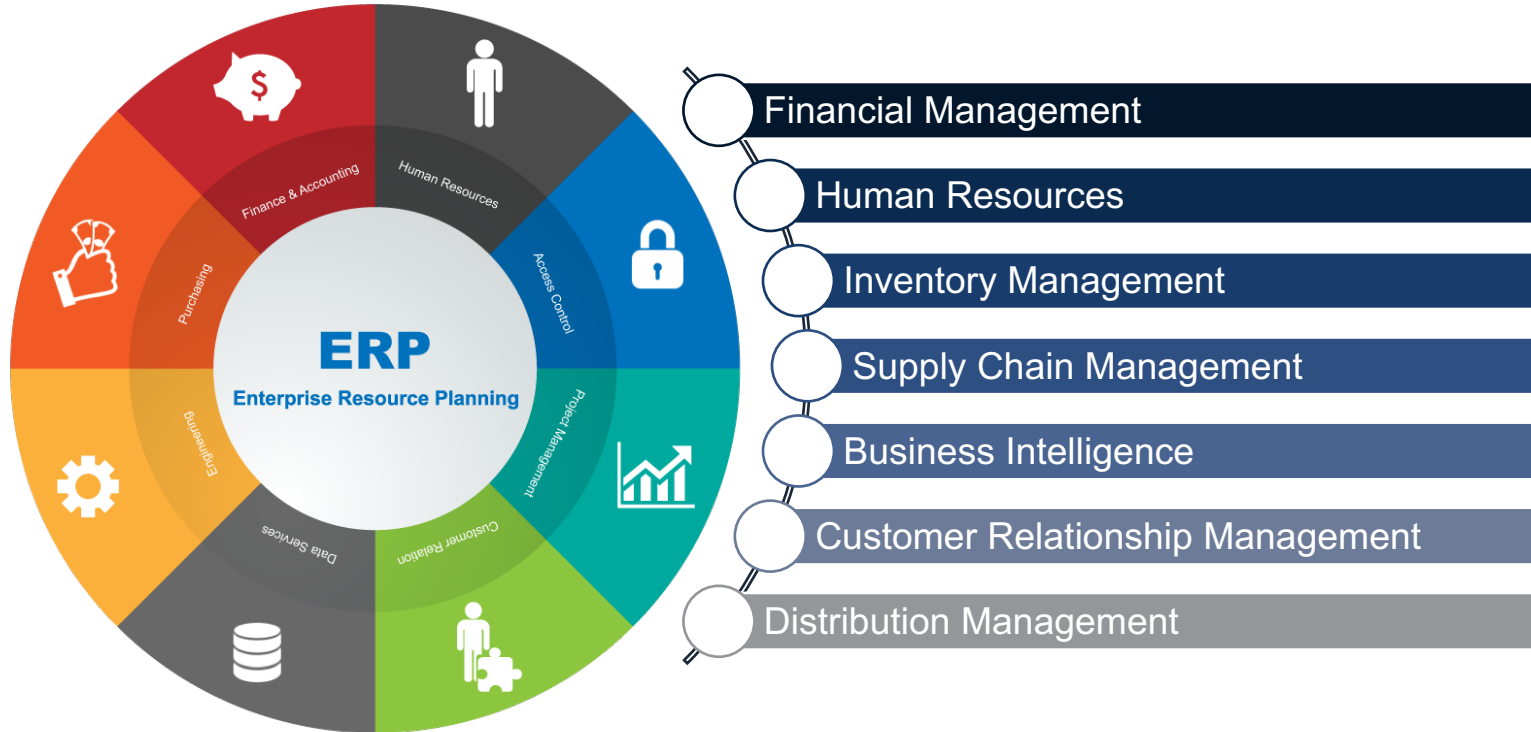
Enterprise Applications Integration (EAI)

Types

- Presentation Integration Model
- Data Integration Model
- Functional Integration Model

Business Intelligence (BI)

- Quick Real Time Analysis
- Business Metrics Report
- Fast Review
- Easy Share Information
- Identify Selling Opportunities
- Enhance Decision Making Process
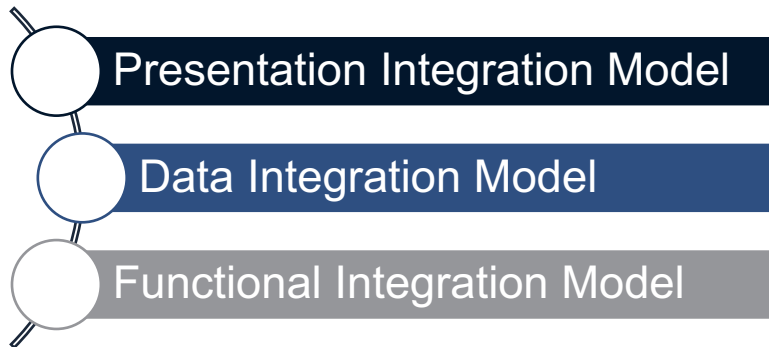
Business Intelligence

Human Resource Management System (HRMS)

Real-time example

Super Market

TG · AP · KA

Hyderabad · Vijayawada · Bangalore

Secunderabad · Vizag · Hubli

HRMS
- Employee Management
- Payroll
- Time Entry
- Benefits / Bonus
- Insurance

Inventory
- Items / Price / Quantity
- Warehouse Management
- Shipping

Finance
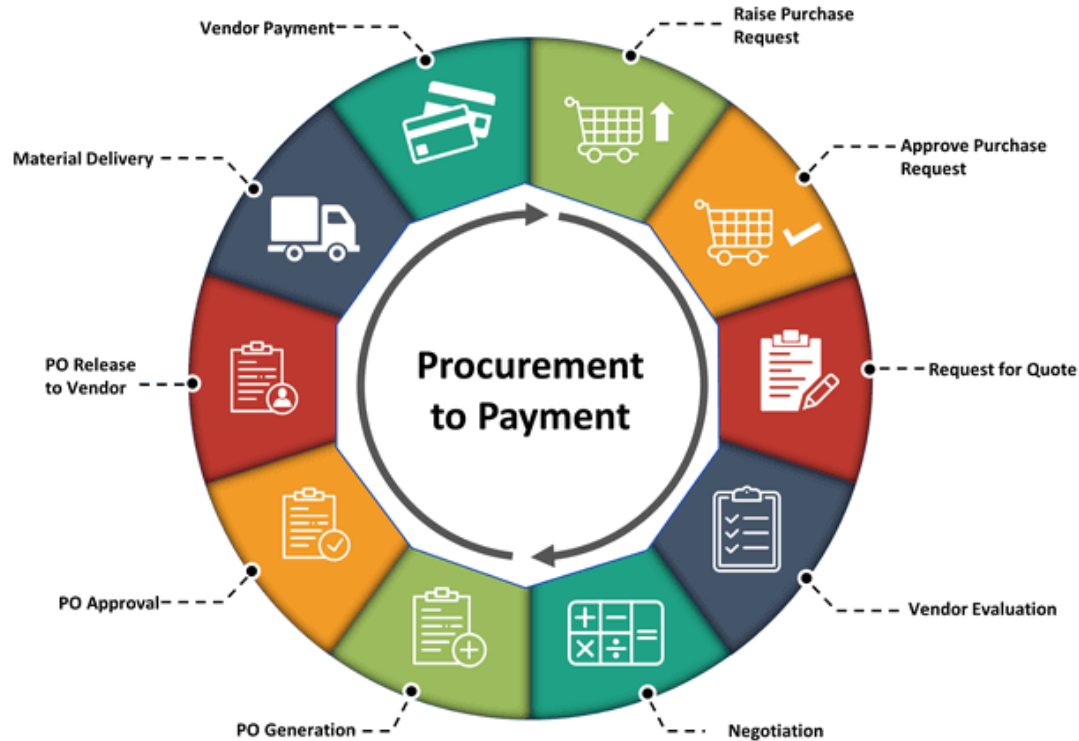- Payables
- Receivables
- General Ledger

Procurement
- Purchase Orders
- Expenses
- Suppliers / Customers

Order Management
- Order Entry / Booking / Processing
- Shipping

Procure to Pay Cycle

Order to Cash Cycle

Customer Order → Order Fulfillment → Delivery → Invoicing → Customer payments/Collection → Cash Application

Inventory Management