

Information Technology for Logistics

Part 3: ERPNext

What is ERP?

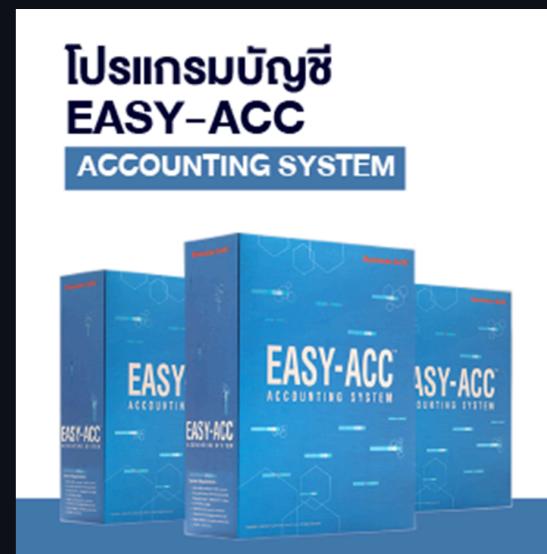
- Stands for *Enterprise Resource Planning*.
- Software that collects information from various departments in a common database
 - Unify critical business functions together.
 - Provide organization-wide visibility.

| Really complicated software

Modules



Standalone Software



Standalone Software



ERP vs Standalone Software

- ERP acts as a unified platform integrating multiple business processes
 - Specialized software addresses only a single function or department.
- | ERP enforces *process flows* across business functions.

Benefits of ERP



Implementation Challenges

- Budget
 - License, operation cost, upgrade cost
- High learning curve
 - Need training, resistances to change
- Complex system
 - Need dedicated IT resource, capable vendor to maintain
- Non-standard processes / localization
 - Need a lot of customization (e.g. tax)

ERP Products

Product	Cost (Monthly)
Oracle NetSuite	\$100 / user + \$1000
SAP Business One	\$200 / user (min 4 users)
Microsoft Dynamics 365	\$200 / user
Sage Intacct	\$1200 (1 user)
Odoo	\$25 / user
Odoo (Open Source)	Free
ERPNext	\$50 (unlimited user)
ERPNext (Open Source)	Free

Odoo

	Enterprise	Community
Price	<i>\$25 / user / mo</i>	<i>Free</i>
Functionality	<i>Full</i>	<i>Limited</i>
Service	<i>On Cloud</i>	<i>On Premise</i>

ERPNext

	Cloud	Open Source
Price	\$50 / mo <i>(unlimited user)</i>	<i>Free</i>
Functionality	Full	Full
Service	<i>On Cloud</i>	<i>On Premise</i>

Why ERPN^{ext}?

- 100% open source
- Extensive functionality
 - All areas covered (more or less)
 - Low Code / No Code
- Allow for easy customization

Why ERPN**e**x?

- Built on general-purpose framework
 - Frappe framework
 - Rapid development / customization
 - Active development
 - Update every week

Frappeverse

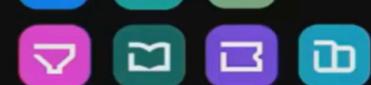
- Ecosystem of open-source products, frameworks, and community built around the Frappe Framework,
 - ERPNext as its flagship application.
- Checkout [Frappeverse Conference 2025](#).

Full Stack

Enterprise apps



Business apps



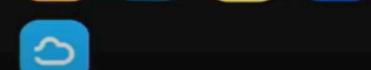
Developer tools



Productivity suite



Cloud platform



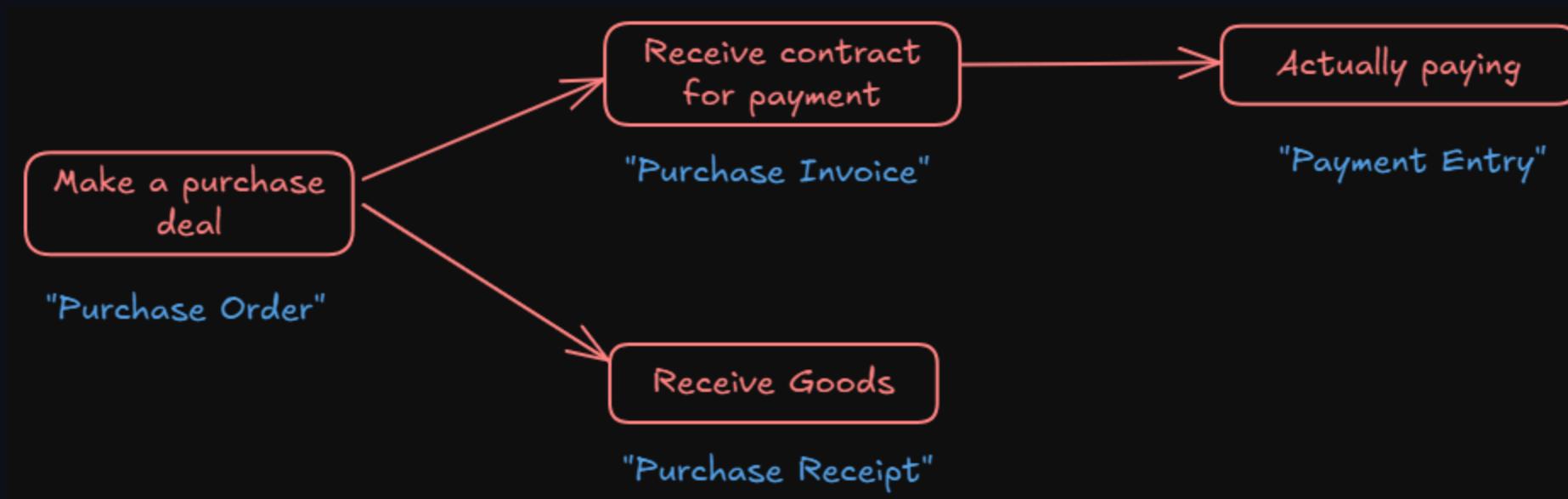
Installation

- Guide

Setup

- Create item
- Create customer
- Create supplier

Purchase



Sale

