ENTERPRISE RESOURCE PLANNING USING ODOO ERP – AN OPEN SOURCE ERP SOFTWARE

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Profile

- Name: Yulia
- University: Petra Christian University, Surabaya-Indonesia
- Department: Informatics
- Research Interest: Information System, ERP
ERP

A business process management software that allows an organization to use a system of integrated applications to manage the business and automate many back office functions related to technology, services and human resources.
ERP Benefits

**TOP BENEFITS OF IMPLEMENTING ERP SOFTWARE**

- **Security & Regulatory Compliance**
  - Keep data safe and regulated with built-in protections.

- **Productivity**
  - Eliminate redundant processes and tasks through automation.

- **Streamline Processes & Efficiency**
  - Automate all business operations cross-departmentally.

- **Fosters Growth**

- **Competition**
  - Stay on top of technology solutions, ahead of your competition.

- **Mobility and Flexibility**
  - Work from home, your office, or anywhere with a mobile-friendly solution.

- **Collaboration**
  - Centralized data will bolster interdepartmental collaboration.

- **Save Money**
  - All customer and financial data, housed in one location.

- **Integrated Information**

- **Customer Service**
  - Faster, more accurate access to customers' information and history.

- **Forecasting & Reporting**

www.workwisesoftware.com
ERP Vendors
Odoo ERP Software

- An all-in-one management software that offers a range of business applications that form a complete suite of enterprise management applications.
- The Odoo solution is ideal for SMEs, but fits both small and large companies alike.
- Odoo is an all-in-one business software capable of covering all business needs, including CRM, Website/e-Commerce, billing, accounting, manufacturing, warehouse- and project management, and inventory, all seamlessly integrated.
Odoo ERP Software

- In 2005, Fabien Pinckaers, the founder and current CEO of Odoo, started to develop his first software product, TinyERP.
- In 2009, becomes OpenERP and in 2014, becomes Odoo
- From inception, Odoo S.A / OpenERP S.A have released software as Open Source but starting with the V9.0 release, the company has transitioned to an open core model which provides subscription-based proprietary Enterprise software and cloud-hosted Software as a service, and a cut-down community version.
- There are 2 kinds of solutions: On-premise and Hosting in the cloud.
  - On-premise means the server is running locally and implement the software on the server directly. First, set-up Odoo database, install Odoo and make a basic configuration of the system according to the requirements.
  - The cloud hosting software as a service concept offers an attractive solution to rent the software and pay per month.
- The main Odoo components are the OpenObject framework, about 30 core Module (also called official Module) and more than 3000 community Module.
- There 2 types of edition: Community edition and Enterprise Edition
  With Odoo Enterprise we have access to additional services, modules and features in order to improve the usability of our system. The Enterprise version can be installed with Odoo hosting and on premise offer
- Odoo also offers a completely free programme called Odoo Education, which allows teachers and/or students to create an Odoo database for academic purposes.
- Odoo uses Python scripting and Postgres database. A development repo is on GitHub.
Odoo Modules

- Accounting
- CRM
- Sales
- Website
- eCommerce
- Discuss
- Purchase
- Inventory
- Manufacturing
- Point of Sale
- Project
- Expenses
## Odoo Modules

### Odoo Enterprise Modules
- Sales
- Purchase
- Services Management
- Invoicing
- Point of Sales

### Odoo Human Resources Management (HRM) Apps
- Expenses
- Skills Management
- Holidays
- Attendances

### Odoo Logistics Management
- Warehouse Management
- Shipping Management
- Manufacturing
- Quality & Repairs
- Products and pricelists

### Odoo Accounting & Finance Modules
- Accounting
- Analytic Accounting
- Budgets
- Payments Management
- Asset Management
- Bank interfaces
Odoo Modules

Odoo CRM Modules
- Customer Relationship Management.
- Lead Management/ Opportunity Tracking
- Mail Gateways
- Direct Marketing
- Phone Calls
- Calendars

Odoo Project Management
- Operational Management

- Financial Management
- Timesheets
- JIT

Odoo eCommerce Management Modules
- Magento Integration
- eBay Integration
- Amazon.com Integration
- Channel Advisor Integration
- Shipping & Payments integration
Easy quotation software

Send polished quotation with e-Signature and online payment.
Odoo Sales

Your quotes online from proposal to eSignature

- Quotation templates
- Send quotations
- Close deals
- Get paid faster

Sell faster with electronic signatures
Allow customers to easily review and sign your online quotations from anywhere.

Communicate quickly and efficiently
Get custom alerts for relevant activities, automatically communicate on the quote via email, have a traceability of the negotiation.

Maximize profits by upselling
Increase sales volume by automatically proposing extra options and accessories, apply closing triggers, discounts, and more.
Odoo CRM

The real customer centric CRM

Track leads, close opportunities and get accurate forecasts.
Odoo CRM

Great Tool = Happy People

Automate activities based on your sales scripts: calls, meetings, mails and quotations. Get all information you need, right on the opportunity page viewed, mails received, etc.
Odoo eCommerce

Modern Open Source Online Store

Odoo Integration with eBay

- Publish your products on eBay
- Keep your stock updated
- Automatic creation of sale orders and invoices
- Automatic creation of customers
- Fully integrated with Odoo
- Increase sales opportunities
- Keep track of eBay sales
- Allowed auction sales
Odoo Integration with eBay

Without eBay integrator

Create product on eBay

Create product in Odoo

Manage the sale in eBay

Create the sale in Odoo

When paid, create the invoice in Odoo

With eBay integrator

Create product on Odoo

Synchronize with eBay

Manage the sale in Odoo
Odoo Integration with eBay
How it works?
Some Odoo Projects
1. Odoo ERP Module: Travel Agent
1. Odoo ERP Module: Travel Agent

This booking system integrates with Abacus/ Sabre – a popular Global Distribution System/ GDS to have real-time inventory and best prices.

The system also supports multiple currencies and multiple payment gateways.

GDS are server-hosted web services that offer deals on booking of travel products like flights, hotels, transfers and holiday packages around the globe. A GDS system is a search based system that allows users to look for travel products from the suppliers around the world and the system will return results with real time pricing and availability comparisons. Users can book and process the travel deals that best suits their requirement.
1. Odoo ERP Module: Travel Agent (cont’)

![Airline ticket information](image)
1. Odoo ERP Module: Travel Agent (cont')
1. Odoo ERP Module: Travel Agent (cont’)

Your current session time: 09:11

Soekarno Hatta Intl - Jakarta (CGK) ⇆ Tokyo Intl - Tokyo (HND)
Fri, 22 Sep 2017
Thu, 19 Oct 2017

1 | Choose Departure Flight

Filter: Airlines, Transit
Sort: Departure, Arrival, Price

CGK
Jakarta - Soekarno Hatta Intl
05:15
Friday, 22-09-2017

HND
Tokyo - Tokyo Intl
21:35
Friday, 22-09-2017

Transit: 1
19:45
01:55
Thursday, 19-10-2017

Cathay Pacific CX 752
Depart

CGK
Jakarta - Soekarno Hatta Intl
HKG
Hong Kong - Hong Kong Intl

Combo Price!
5,200,000

Total
6,436,300

DEPARTURE FLIGHT
CGK
Jakarta
Tokyo
09:15
10:45
Fri, 22 Sep 2017
Thu, 19 Oct 2017
1 x ADT @ 5,200,000
5,200,000
Total Tax
1,236,300
Sub Total
6,436,300

Total
6,436,300

Account Code
Cathay Pacific

Lanjut ke pemesanan
1. Odoo ERP Module: Travel Agent (cont’)

### Booker Information

- **Title**
- **First name and middle-name (if any)**
- **Last name**
- **Nationality**
- **Contact Mobile**

#### Departure Flight

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<th>HND</th>
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</thead>
<tbody>
<tr>
<td>Jakarta</td>
<td>Tokyo</td>
</tr>
<tr>
<td>Fri, 22 Sep 2017</td>
<td>Thu, 19 Oct 2017</td>
</tr>
</tbody>
</table>

**Total**

- **Sub Total**: 5,380.00
- **Total**: 6,436.300

**Do you book this flight for you?**
- **No**
- **Yes**

**Passenger Data**

- The name of the passenger must be right and appropriate with International passport, and domestic data can match with KTP/Passport/IDM.
- Passenger data can’t be changed after the passing of this page.

### Adult Passenger 1 (12 years old and older)

- **Title**
- **First name and middle-name (if any)**
- **Last name**
- **Nationality**
- **Passport Number**
- **Country of Issue**

**Birth Date**

**Passport Expiry Date**
1. Odoo ERP Module: Travel Agent (cont')
1. Odoo ERP Module: Travel Agent (cont')
1. Odoo ERP Module: Travel Agent (cont’)
2. Odoo ERP Module: Human Resource
2. Odoo ERP Module: Human Resource (cont’)

Pendjadianan Karyawan
By Vincent K Edison

Mengatur jadwal kerja karyawan.
Aplikasi ini memungkinkan anda untuk mengatur:
1. Jam Kerja Karyawan
2. Shift Kerja Karyawan
3. Jadwal Kerja Karyawan
4. Hari Libur Perusahaan (Link dengan google calendar)

http://www.google.com/calendar/feeds/in.indonesian%23holiday@group.v.calendar.google.com/public/basic

- Menambahkan kolom NIP dan Jadwal Kerja di form pegawai
2. Odoo ERP Module: Human Resource (cont’

![Employee Management Screen](image1)

![Employee Profile](image2)
2. Odoo ERP Module: Human Resource (cont’)

![Image of Odoo ERP module interface]

### Laporan Kehadiran Harian

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![Image of Murnaji Gunawan employee information]

**Murnaji Gunawan**

**Jenis Slip**: Khusus

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2. Odoo ERP Module: Human Resource (cont’)
3. Odoo ERP Module: Business Intelligence

- Odoo Data Mining Module using Market Basket Analysis using FP-Growth algorithm to find products that are purchased simultaneously. Example, if people bought sugar, what is the probability of buying coffee too.

- Useful for company to improve the company's business strategy analysis and also equip the Odoo features by adding this module.
3. Odoo ERP Module: Business Intelligence

Setting

ETL
3. Odoo ERP Module: Business Intelligence

Generate FP-Tree
3. Odoo ERP Module: Business Intelligence (cont’
4. Odoo ERP Module: Church Information System
THANK YOU