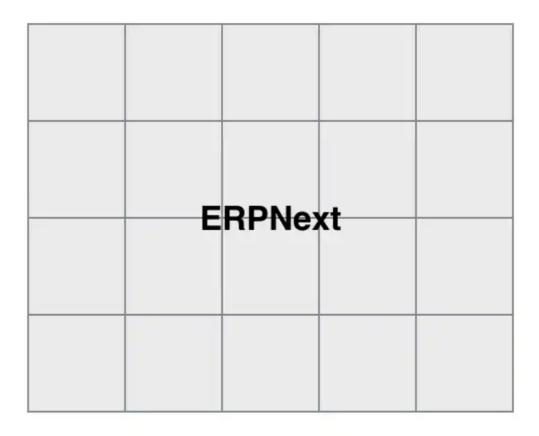
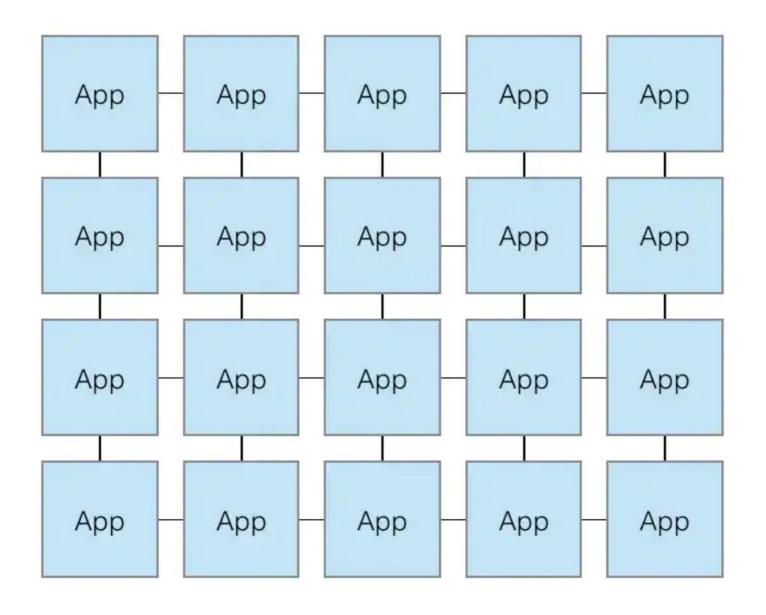
ERPNext

Architecture



Large, Complex and Overwhelming



Small, Self-Contained and Integrated Units

What is ERPNext?

Is it an ERP?

Is it an POS?

Is it customizable?

Does it support manufacturing?

Is it Open?

Is it an Cart?

Will I get support?

Is it for my country?

Is it an HR System?

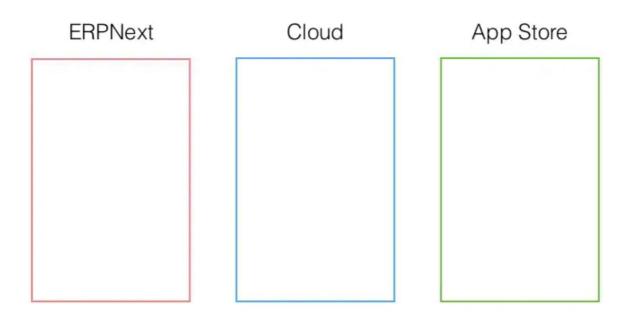
Is it a Cloud?

Can I contribute?

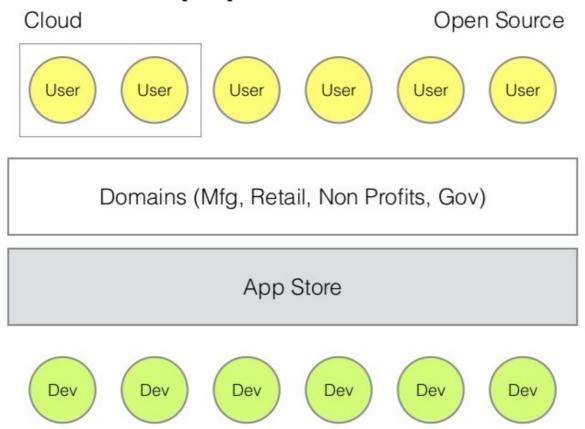
Is it Commercial?

Can I run it on my server?

New ERPNext



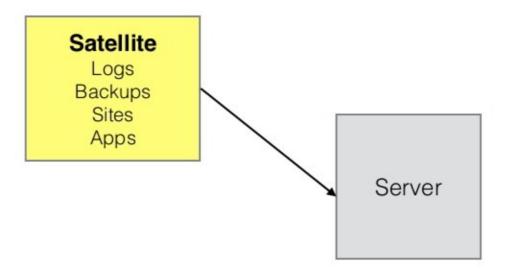
App Store



Broader Engagement and Fulfilment for the Entire Ecosystem

Satellite

Server Management for Open Source



For Self-Hosted, Commercial Support Users and Partners

Who is using ERPNext?

Used by more than 5000 companies across the world

















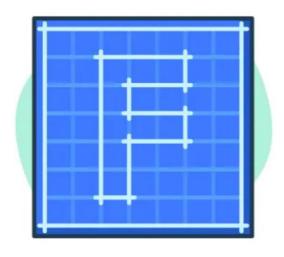
ERPNext Integration





100% Open Source

Winner of BOSSIE Award (InfoWorld)
Rated as one of the best Open Source ERPs by
Capterra, <u>OpenSource.com</u>, Enterprise Apps Today



Fully Extensible using Frappe Framework

Build Custom Apps, Forms, API, Scripts Almost anything is extensible

What is Frappé?

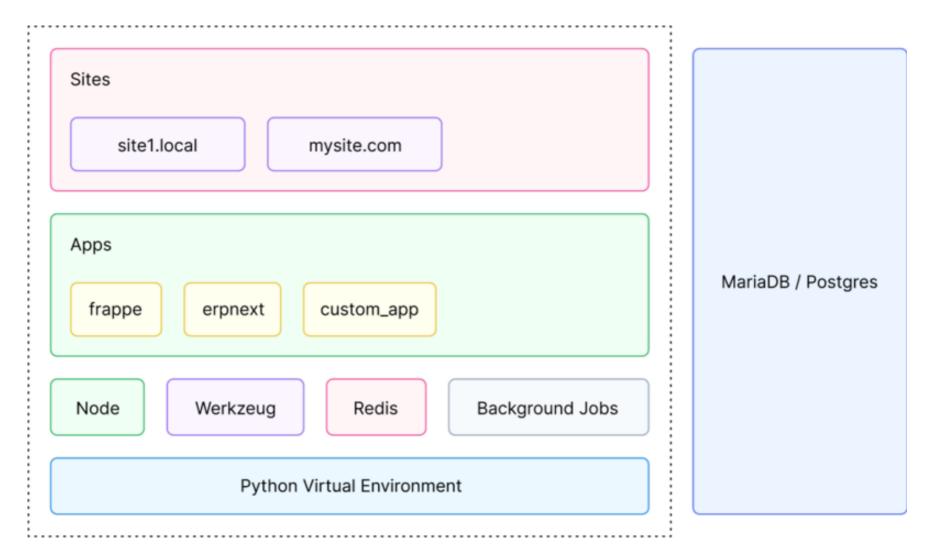
Low code full stack web framework for real world applications, in Python and Javascript

- Web App Framework (based on Werkzeug)
- MVC + ORM (object relational mapper)
- Sessions, Users, Roles, Permissions, Caching
- Rich, scriptable admin UI (Javascript)
- UI driven form and model builder
- Routing and templating (Jinja)
- Async and realtime (Node + socketio)
- Background workers (Python RQ)
- Multi-Tenant production deployment (supervisor, Nginx, Redis)
- Extensible architecture (pluggable apps)

Before You Start

- **1. Python** Frappé uses Python (v2.7) for server-side programming to write quality server-side code, you must also include automated tests.
- 2. MariaDB / MySQL To create database-driven apps with Frappé, you must understand the basics of database management, like how to install, login, create new databases, and basic SQL queries.
- **3. HTML / CSS** If you want to build user interfaces using Frappé, you will need to learn basic HTML / CSS and the Boostrap CSS Framework.
- **4. JavaScript and jQuery** To customize forms and create rich user interfaces, you should learn JavaScript and the popular library jQuery.
- **5. Jinja Templating** If you are customizing Print templates or Web pages, you need to learn the Jinja Templating language. It is an easy way to create dynamic web pages (HTML).
- **6. Git and GitHub** Learn how to contribute back to an open source project using Git and GitHub, two great tools to help you manage your code and share it with others.

Frappé includes all the tools needed to deploy a site into production. Database, caching, background jobs, realtime notifications, etc are all configured when you set up a Frappe site.



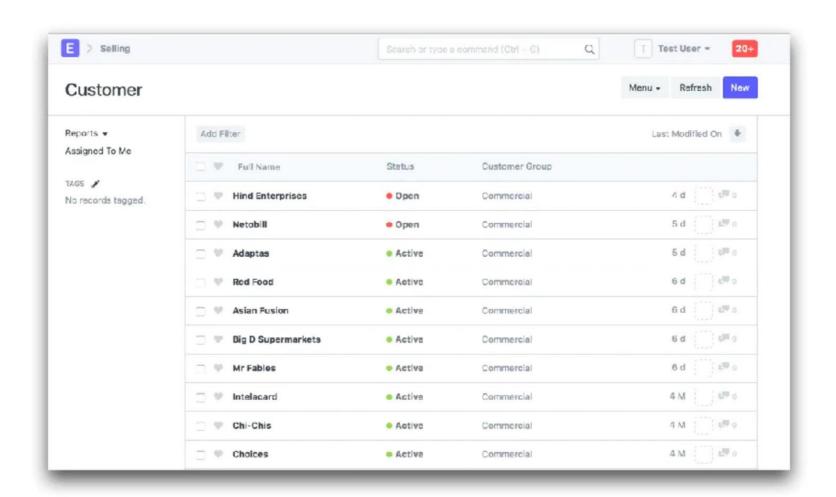
Installing the Frappé Bench

Easiest way to setup frappe on a Unix Like system is to use frappe-bench. The bench is a command-line utility that helps you to install apps, manage multiple sites and update Frappe / ERPNext apps on */nix (CentOS 6, Debian 7, Ubuntu, etc) for development and production. Bench will also create nginx and supervisor config files, setup backups and much more.

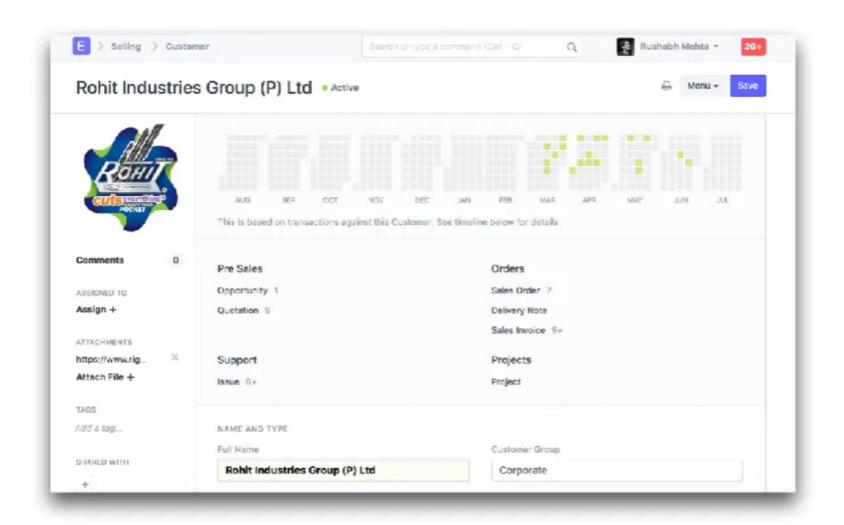
- Two ways of install:
 - Manual Install
 - Easy Install (to be explained)

Easy Install

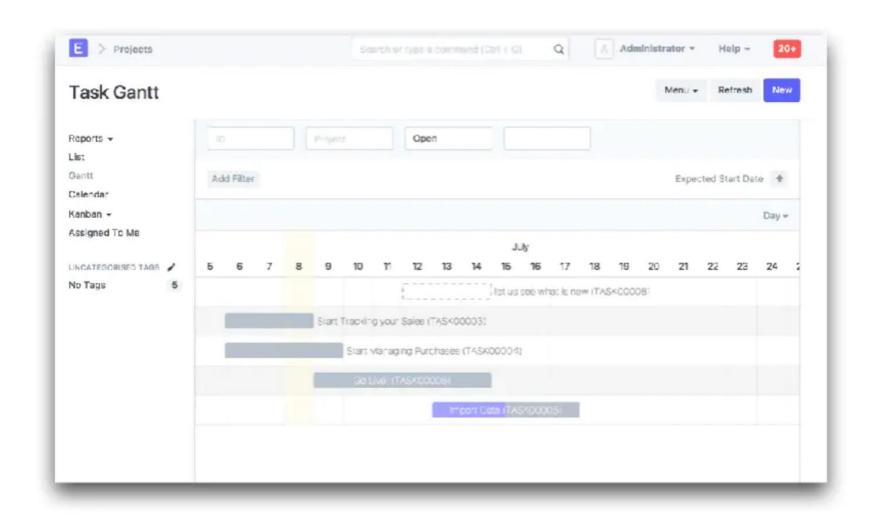
- Best to setup on a blank server.
- Works on Ubuntu 14.04 to 16.04, CentOS 7+, Debian 7 to 8 and MacOS X.
- You may have to install Python 2.7 (eg on Ubuntu 16.04+) by running apt-get install python-minimal
- You may also have to install build-essential and pythonsetuptools by running apt-get



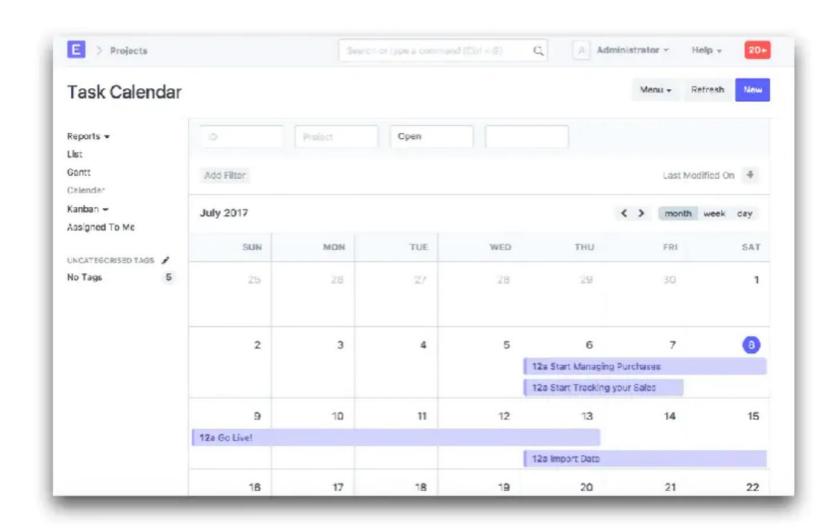
List View



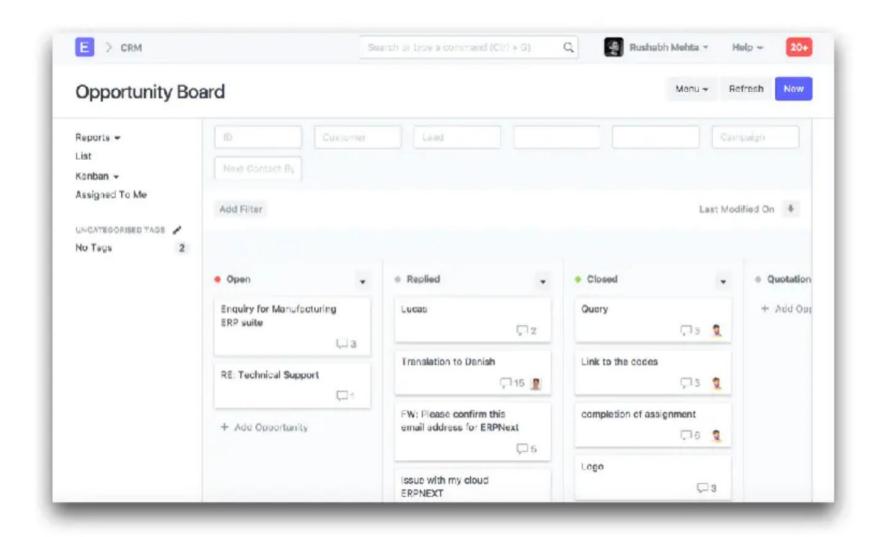
Form Views



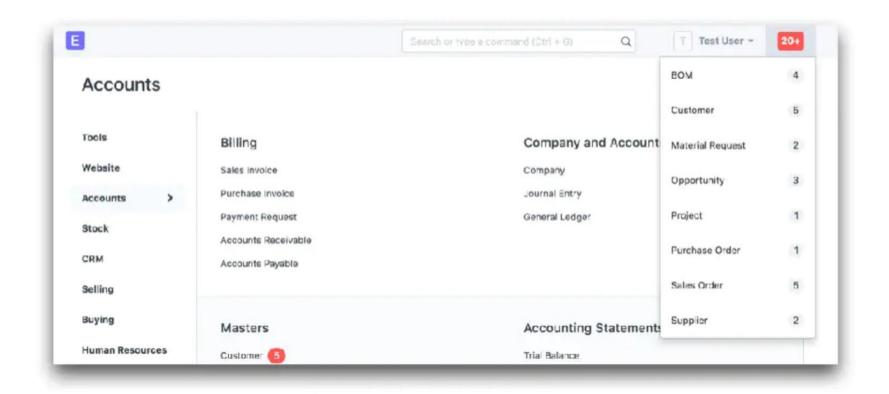
Gantt Views



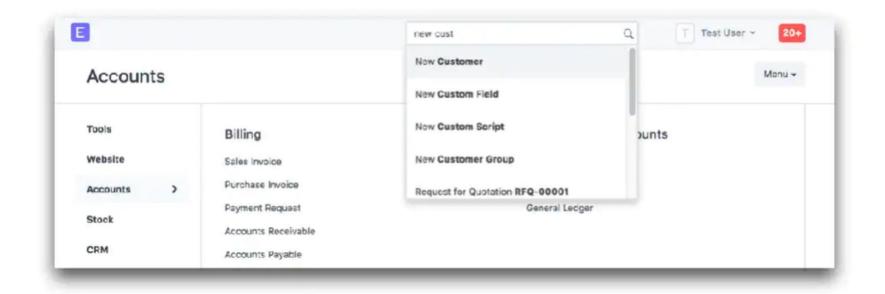
Calendar View



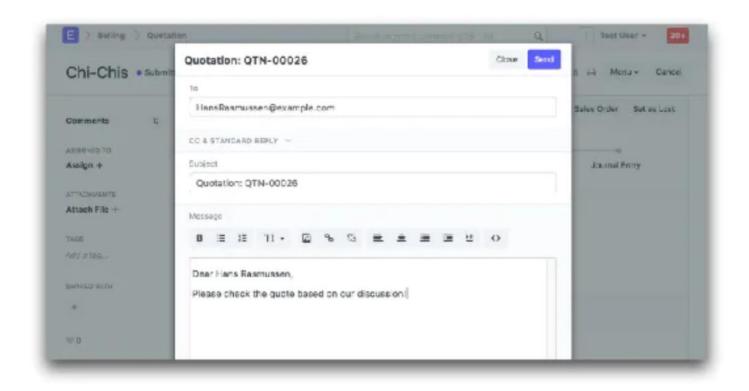
Kanban Views



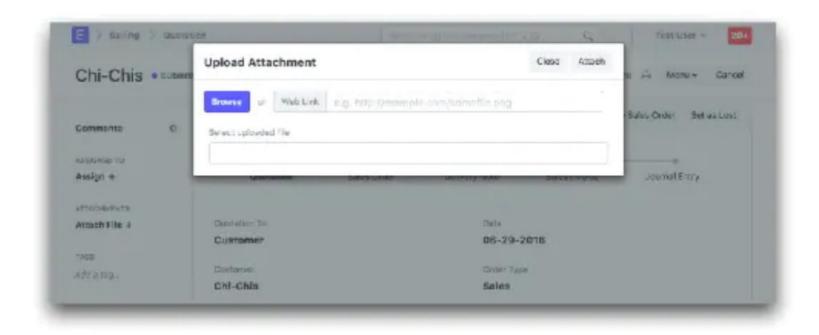
Modules and Notifications



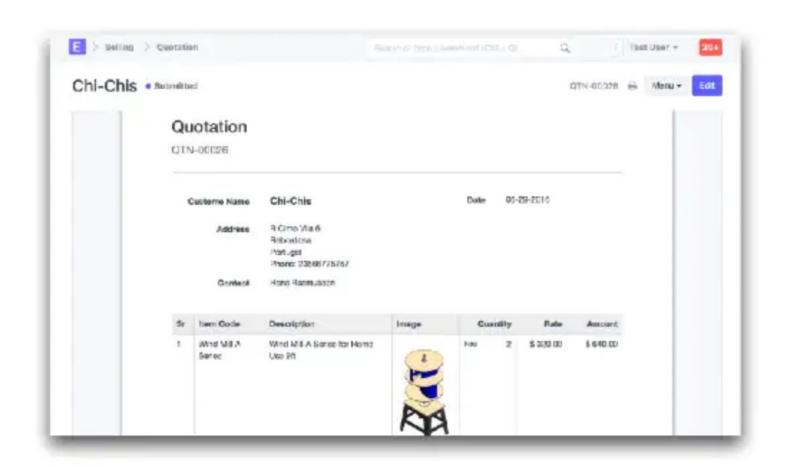
Universal Search



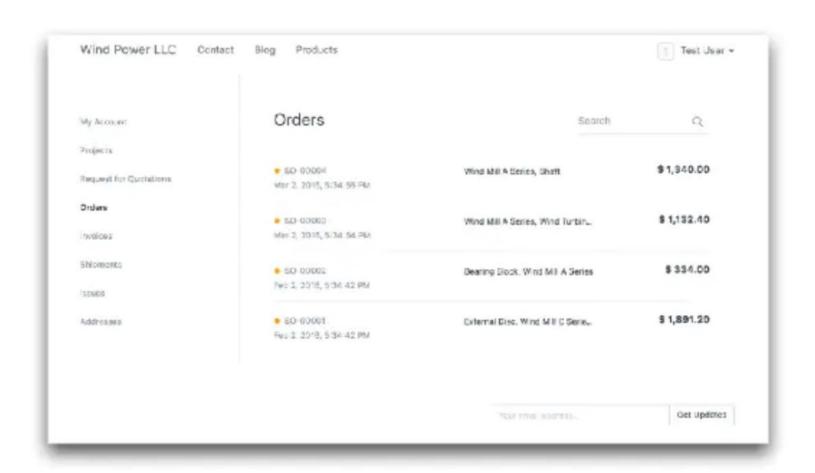
Email documents



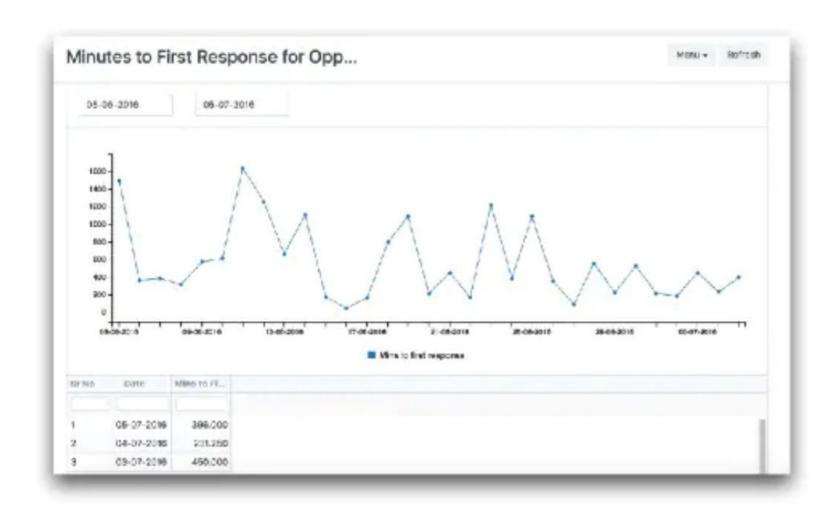
File Attachments



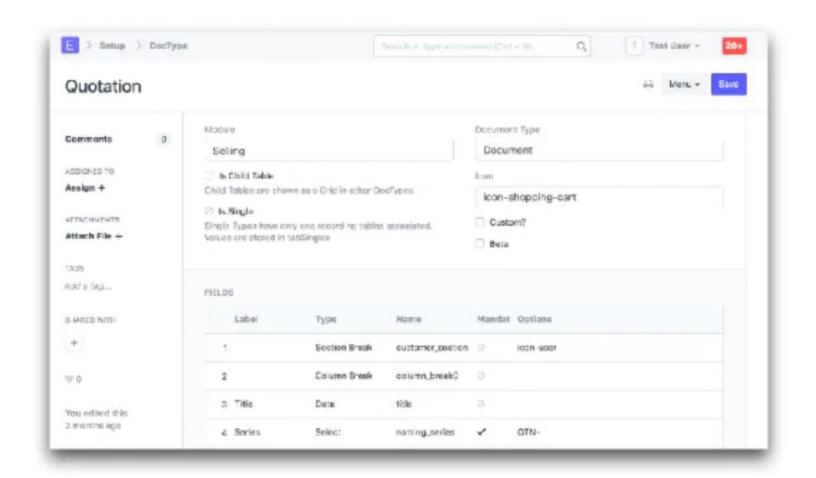
Print Views



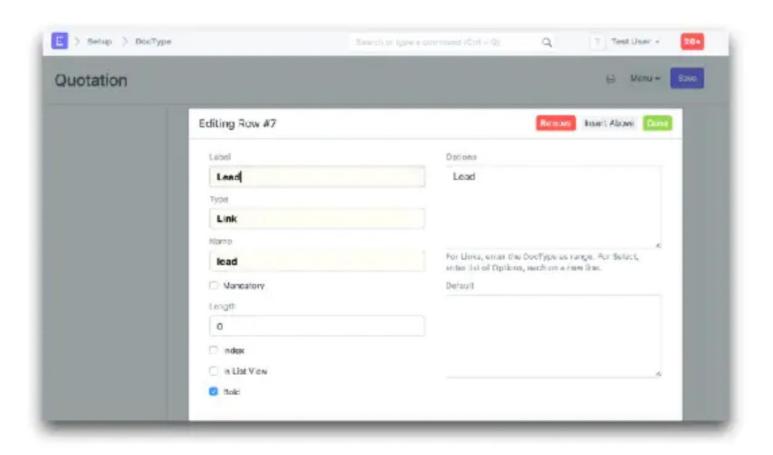
Web Views



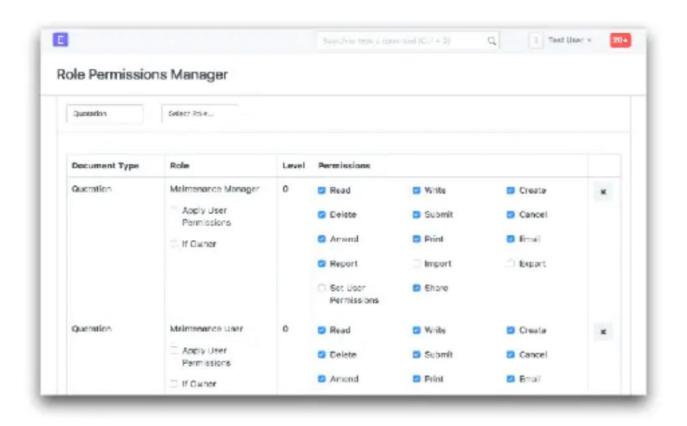
Reports



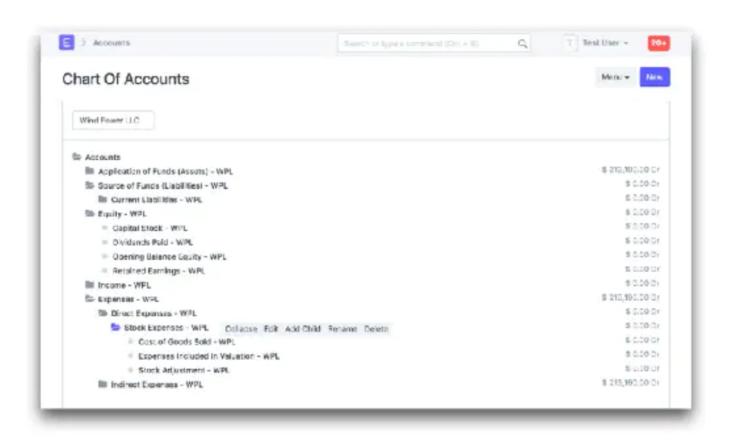
Metadata Modeling



Model Fields



Role based Permissions



Tree Views and Nested Sets

(ar) العربية	bålgarski (bg)	ৰাঙালি (bn)
7H missages ecited 1702 vanied of 5769	234 messages epities, 34 verified of 5769	46 messages edited, 37 verified at 5760
क्षणदेखन् (bo)	bosanski (bs)	català (ca)
2 reculações editor, Q vicilitad ef 5789	693 mescages octop. 847 verified of \$769	* 37 recognic edpart tris control of 5799
česky (cs)	dansk (da)	Dansk (Danmark) (da-DK)
867 messages edited, 1723 verified at 5769	106 missages adord, 56 verbild of 5769	0 messages added it sented of 5769
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5851 markingles related 3274 volume and 6769	21 messages exhibit. 297 veilled of \$765	\$904 messages existed 2010 mer Sed of \$750
Español (Perú) (es-PE)	eesti (et)	(fa) پارســی
5) messages edited, 50 verned of 5709	5 messages exited, 2 verifies of \$759	230 messages edited, 335 verified of 1765

Translation Portal

```
def add_customer(name, group):
    c = frappe.new_doc("Customer")
    c.customer_name = name
    c.customer_group = group
    c.insert()

def get_most_valued_customer(since):
    return frappe.get_all("Sales Invoice",
        filters = {"transaction_date": (">", since)},
        fields = ["customer", "sum(grand_total) as total_income"],
        group_by = "customer",
        order_by = "total_income desc", limit = 1)[0].customer
```

Scripting API

Also includes...

- REST API
- Bootstrap based responsive UI
- Workflows, Alerts
- Cross-site scripting (XSS) Filtering
- Database migrations (schema sync)
- Update tool (update and deployment tool)
- Package Manager
- Test Framework
- Ansible based deploy scripts
- Web Sockets
- frappe.publish_realtime('event', 'message'))

