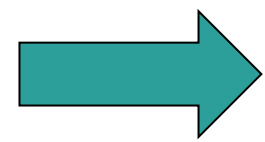


# Building an Integrated Enterprise Resources Planning Web-App System

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## Overview -----



**An ERP program**, abbreviation for enterprise resource planning program, is a program that aims to manage business processes through the use of software.

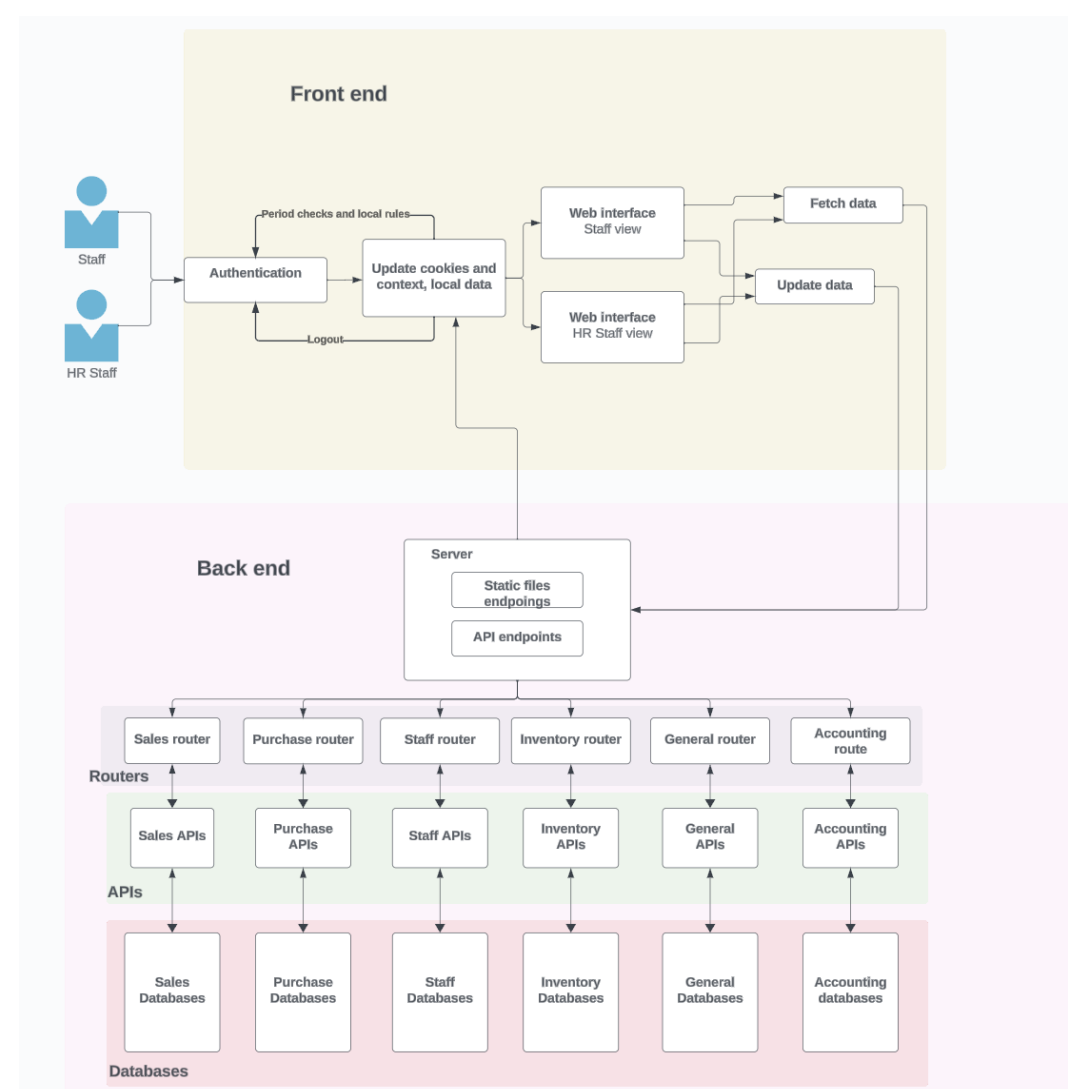
### Issue

ERP programs do not include staff management and companies need to purchase multiple solutions to manage their business.

### Objective

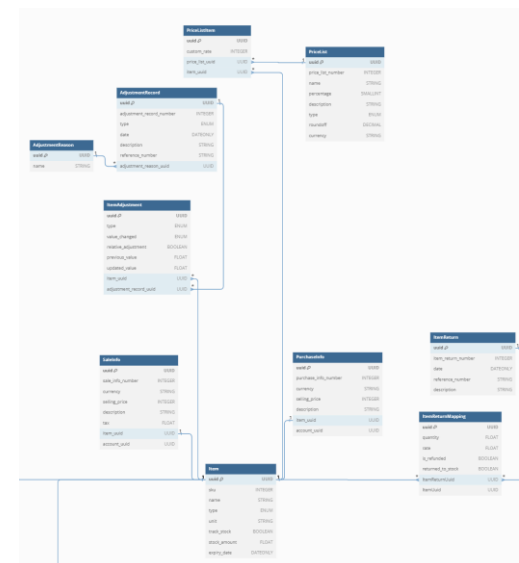
Develop an integrated ERP program that manages sales, purchases, inventory, staff and automates accounting

## Design overview-----

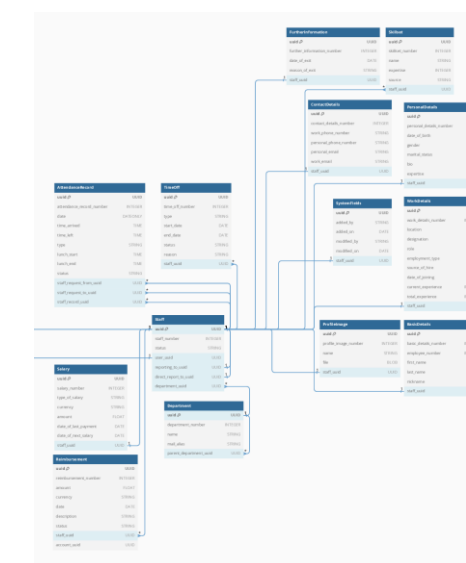


## Back end --

Inventory classes

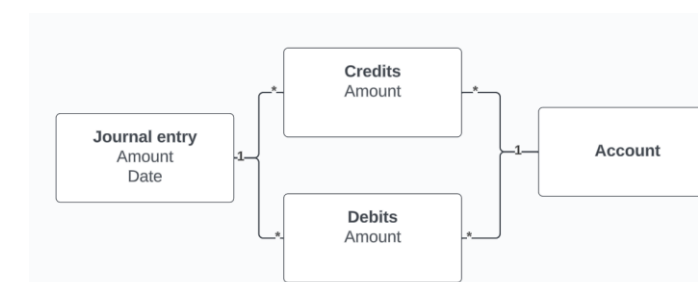


Staff classes ER diagram



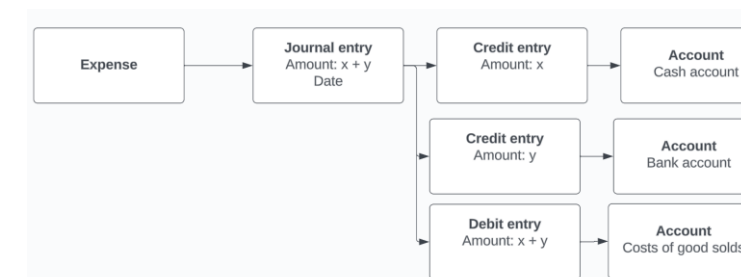
The large ERP system comprises of 65 models, along with 119 associations.

## Automating accounting -----



A class called Journal entry, which can be linked up to any artifacts, such as estimates, expenses, invoices ...etc

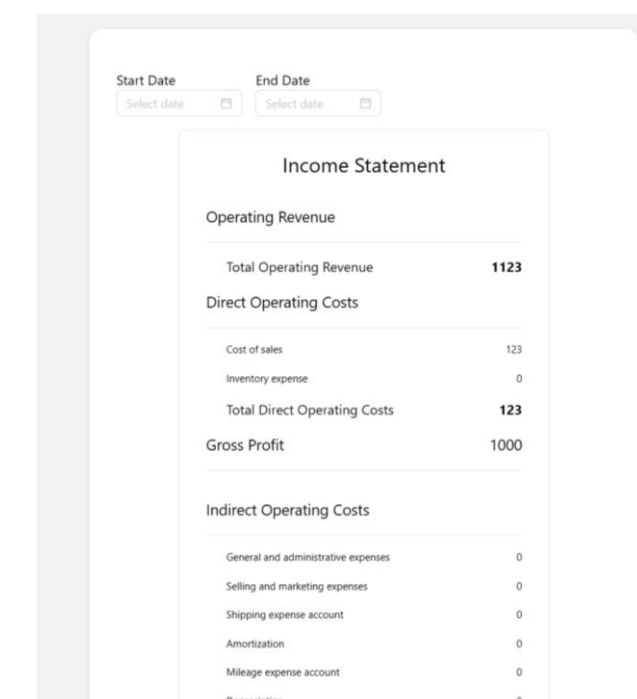
For example, an expense can link to a journal entry and credit two assets account, and debit one expense account.



## Financial reports

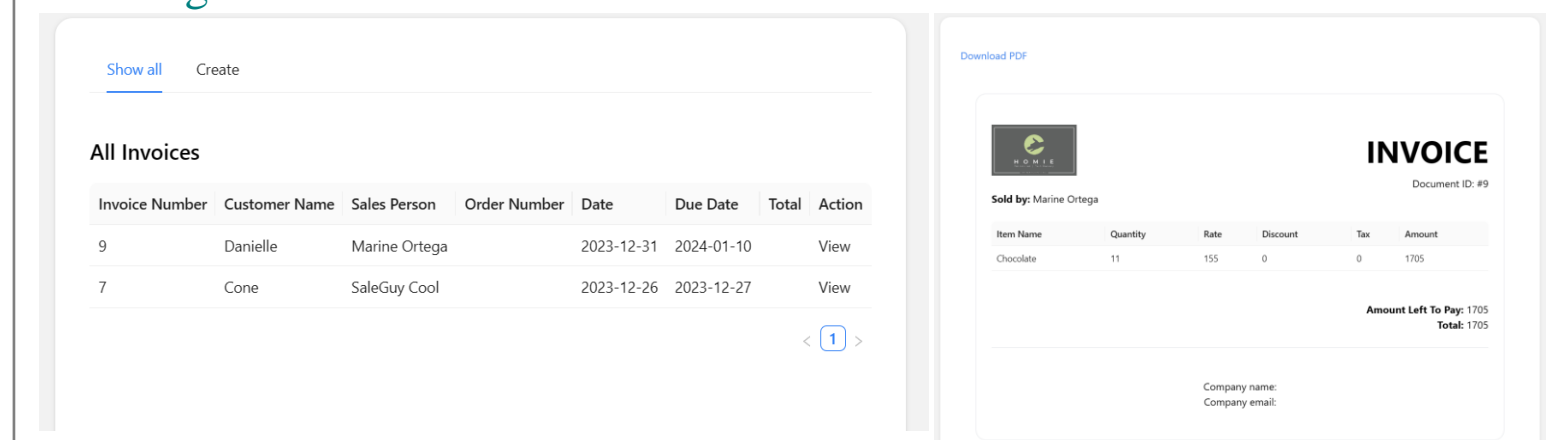
Automating accounting now becomes a problem of handling and retrieving those journal entries and creating financial reports.

This also allows different time periods to be specified, meaning the algorithm will consider the journal entries only within a certain time range



## ERP Web application -----

### Manage invoices

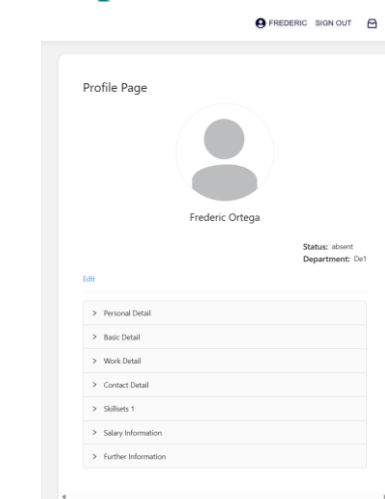


Ability to manage different kind of business artifacts, all with their own way of impacting business predictions. This includes invoices, recurring invoices, estimates, sales order, bills, purchase orders, expenses, payments and more...

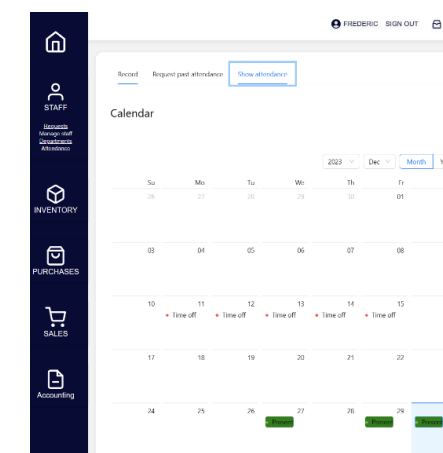
JournalEntry		ACCOUNT	DEBIT	CREDIT
Sales revenue account		0	1705	
Shipping expense account		0	0	
Accounts receivable		1705	0	
		1705	1705	

## With staff management -----

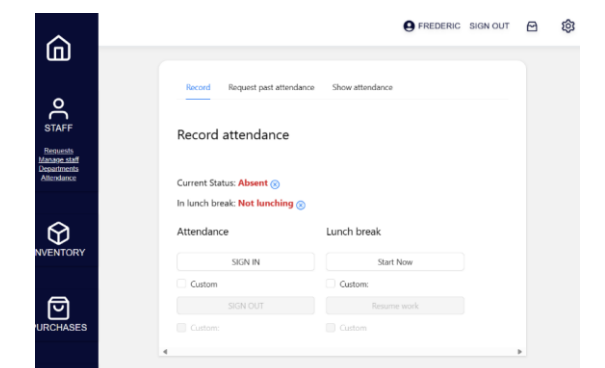
### Edit profile



### View calendar



### Record attendance



And many more features...

Web pages for staff to record their attendance, requests reimbursements, request time-offs, or even edit their personal profiles. HR staff have more supervision of their staff.