

❖ Project Overview

Tryton ERP Tasks (Centralized)

Installation & Configuration

- I. Install Python Packages
- II. Install Tryton ERP – GitHub
 - A. Replace default database with PostgreSQL database
 - B. Complete install

[Tryton · GitHub](#)

[Tryton · GitLab \(heptapod.net\)](#)

[Tryton Documentation — Tryton Documentation](#)

[How to install Tryton — Tryton server](#)

[PostgreSQL: The world's most advanced open source database](#)

Stock & Inventory Setup

- I. Test default Tryton ERP stock & inventory module
- II. Program automated inventory

[Stock Module — Tryton module for stock and inventory](#)

Programming the User Interface for Metrics Display

- I. Grab data using API from PostgreSQL Database
- II. Plug hard data into formulas to create metrics
- III. Display metrics via Interface

[Python Tkinter, Display Live Data - Stack Overflow](#)

Modified ERP Tasks (Decentralized)

Installation & Configuration

- I. Duplicate Tryton ERP**
- II. Replace default API with Web3 API**

Database Server & Test Network Setup

- I. Download Ganache & Create Database Server**
- II. Deploy Smart Contract to Setup Ethereum Test Network**
- III. Deploy Smart Contract to Connect Web3 API to Ganache**
- IV. Program automated inventory (same as Centralized)**

[gm — web3.py 6.13.0 documentation \(web3py.readthedocs.io\)](#)

[Ganache - Truffle Suite](#)

[Retrieve GANACHE address/publicKey Contracts/Transactions with PYTHON Web3 library \(devcodef1.com\)](#)

Add Code to the User Interface for Second Metrics Display

- I. Grab data using API from Ganache Database**
- II. Plug hard data into formulas to create metrics**
- III. Display both sets of metrics via single Interface**
- IV. Program visualization models to see different plots and graphs of the data for analysis**

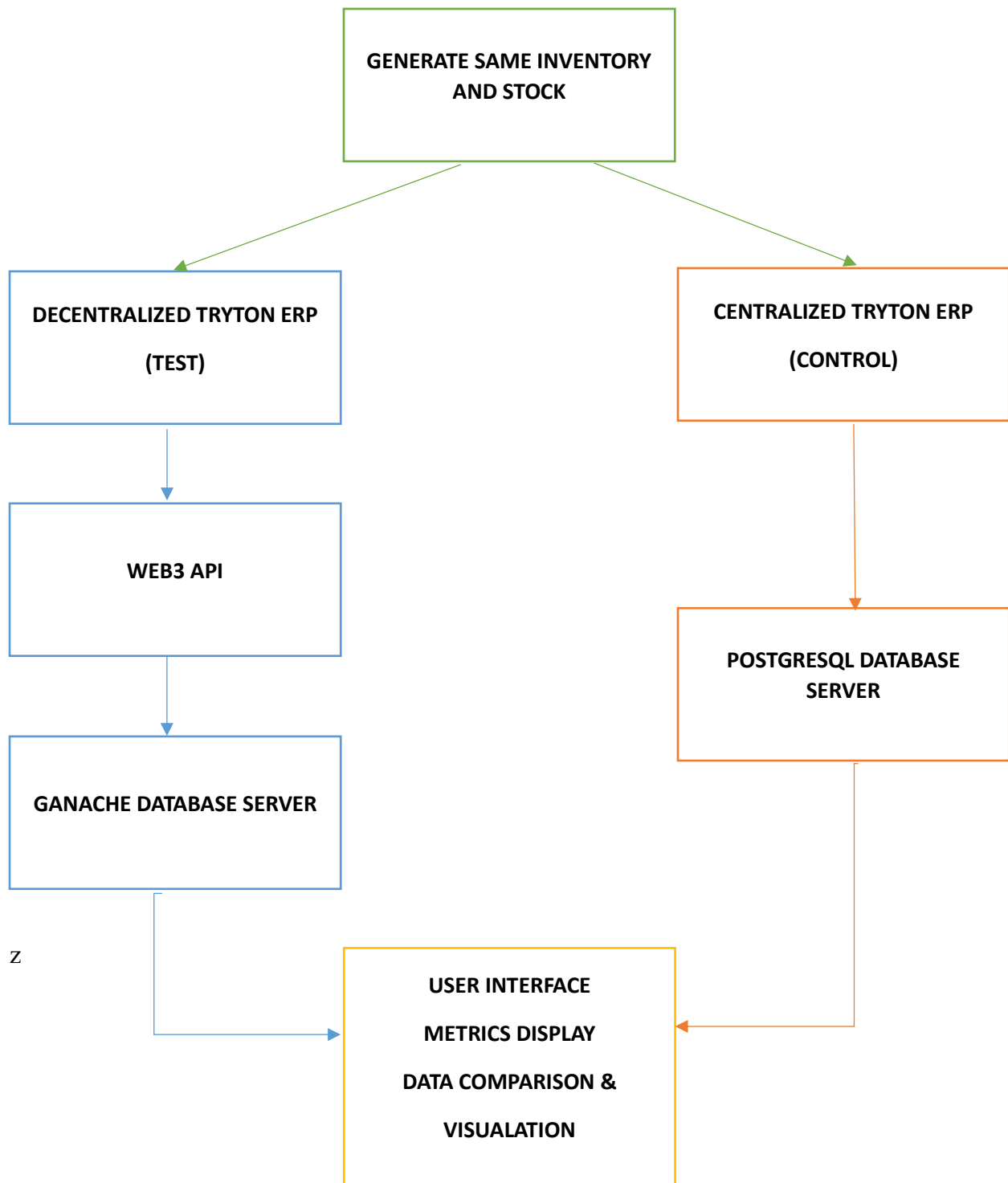


Figure 1. Two System Block Representation