

# INVentory app

Inventory managing app. Created for tracking electronics component in home projects but probably usefull for any other (small) inventory.

Version 0.9.0 , should be fully functional.

Applcation is interfaced by comand line.

Application require vim to be installed. For fuzzy search there are also other dependencies:

- FZF
- wl-copy (WAYLAND)
- notify-send (KDE)
- awk, cut, tr, cat

Data stored in sqlite. SQL cheme described in configuration file so should be resonably easy to fine tune.

Data added mainly by importing from excel files. In configuration file can be defined column name mapping. For now only rules for excel created by LCSC, easyEDA and mouser are defined.

App developed with followin workflow in mind:

1. read BOM file from EDA tool (i'm usind easyEDA)
2. for better volume management, possible to import BOM for many projects
3. prepare shop list in shop format to check availability and prices
4. not necessary but advised, import shop cart for prices and availbility per shop.
5. export BOM again, after adding cost and avaiability, to use as import file for web\_shop. This allow split between shops considering best cost.
6. finally all data can be stored in stock table.

## FUZZY SEARCH

Exploring stock (copy or removing single device) can work very well in pipe with FZF. Bash script is in ./conf folder: inv\_fzf.sh. Most convinient is to plug it to zshrc keybinding:

```
#.zshrc
fuzzy_search_inventory()
{
    ./conf/inf_fzf.sh
}
zle -N fuzzy_search_inventory
bindkey '^s' fuzzy_search_inventory
```

For full functionality (clipboard copying and notifcations), the script require WAYLAND and KDE (very platform dependent).

# CONFIGURATION

Application is logging all commands and output into log file. Global configuration is in `./conf/` directory. You can also have a local config by putting `.conf/inventory.toml` file in current folder (or subfolder). You can use `admin -make_current_conf` option to do so. Local config will use local sql db, log file and `alternative_manufacturers`. Of course you can adjust local configuration manually also.

## NOT IMPLEMENTED / WISH LIST

1. when file not present in search, very misleading info about missing folder
2. add summary:
  - cost of devs in stock,
  - projects coverage by stock
  - project cost
3. add `audit_log` table and undo for stock manipulation (only stock!):

```
CREATE TABLE audit_log (  
    id INTEGER PRIMARY KEY,  
    table_name TEXT,  
    row_id INTEGER,  
    operation TEXT,  
    old_data TEXT,  
    new_data TEXT,  
    changed_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);  
  
CREATE TRIGGER log_update  
AFTER UPDATE ON my_table  
BEGIN  
    INSERT INTO audit_log(table_name, row_id, operation, old_data, new_data)  
    VALUES (  
        'my_table', OLD.id, 'UPDATE',  
        json_object('col1', OLD.col1, 'col2', OLD.col2),  
        json_object('col1', NEW.col1, 'col2', NEW.col2)  
    );  
END;
```