

ICT_Notepad





A personal web app to log, manage, and review ICT-style PD Arrays & Levels for trading. All data is stored locally in a lightweight SQLite database. No cloud. Fast. Private. Yours.

Purpose








Track your daily, weekly, and monthly PD Arrays with custom levels (Price or Time), tags, sessions, and filters. Useful for traders following Smart Money Concepts (SMC) or ICT methodology.

Features




PD Arrays

-  Add new PD Arrays (with name, session, notes, tags, color, and timeframes)
-  Edit or  Delete existing PD Arrays
-  View all PD Arrays (with tag filters and color preview)
- **Assign custom timeframes to each PD Array**





Levels

-  Add levels (custom labels and types, bulk input supported)
-  View all saved level entries (grouped by timestamp)
-  Edit saved level entries (all values in one session)
-  Edit/  Delete individual levels
-  Save bulk values for each PD Array session
-  Filter entries by level type, label, date, price, and timeframe (fully combined)

Tags

-  Manage tag list (create/delete)
-  Add/remove tags on each PD Array
-  Filter PD Arrays by tag

Tools

-  Export PD Arrays or full data to CSV/JSON
 -  Import PD Arrays from CSV (optional)
 -  View statistics and recent activity
 -  Backup and restore full database
-

How it Works

- **Create PD Arrays** with session, timeframes, tags, and custom level structure
- **Add and edit levels** freely, including reusable types (e.g. FVG, CE, etc.)

- **Store level values** daily by entering all values for an array at once (with timestamp)
- **View entries** in grouped format (1 row per session) with full filtering (date, price, type, label, tag)
- **Export or import data** as needed for analysis or archiving
- **Everything runs locally** — fast, private, and offline-ready



Tech Stack

- [Python 3.10+](#)
- [Streamlit](#) for UI
- [SQLAlchemy](#) for ORM
- [SQLite](#) for database (PostgreSQL possible)
- Modular codebase (all business logic in `app/` folder)

Project Structure

```
ICT\_Notepad/
├── app.py                # Streamlit endpoint
├── main.py              # (optional) CLI
├── requirements.txt
├── README.md
├── db/
│   └── trading\_guide.db
├── backups/
│   └── ... (optional, ignored by git)
├── app/
│   ├── **init**.py
│   ├── models.py        # SQLAlchemy models (PDArray, Level, LevelEntry, Tag)
│   ├── db\_utils.py      # DB helpers
│   ├── pd\_array.py      # PD Array logic
│   ├── level.py         # Level/LevelEntry logic
│   ├── tag.py           # Tags logic
│   ├── import\_utils.py  # CSV import logic
│   ├── export.py        # CSV/JSON export
│   ├── stats.py         # Statistics and activity logic
│   └── ...
```

Quick Start

-  [Download latest release](#)
-  Requires **Python 3.10+** (tested with Python 3.11) and **pip**

1. Clone the repository

```
git clone https://github.com/kopethan/ICT_Notepad.git
cd ICT_Notepad
```

2. (Recommended) Create a virtual environment

Linux / macOS:

```
python3 -m venv venv
source venv/bin/activate
```

Windows:

```
python -m venv venv
venv\Scripts\activate
```

☒ You should now see (venv) in your terminal

3. Install dependencies

```
pip install -r requirements.txt
```

4. Initialize the database (auto-created on first run)

```
python init_db.py
```

5. Run the app

```
streamlit run app.py
```

 Make sure you're in the /ICT_Notepad/ directory before running.

? Troubleshooting

If you see this error:

```
error: externally-managed-environment
```

That means your system is protecting its Python install. ☒ Use the virtual environment method shown above, or:

```
pip install -r requirements.txt --break-system-packages
```

Why is this different?

- All values are **logged historically**; nothing is overwritten
- Easy to retrieve, filter, and export years of trading levels
- **Local and private** by design (your data stays with you)
- Clean, intuitive UI, ready for extension

License

License MIT

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Author

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Contribute / Support

- Open an issue or PR to help improve ICT_Notepad!
- Suggestions and feedback are always welcome.

Support This Project

If you enjoy using **ICT_Notepad** and want to support its development, feel free to:

-  [Buy me a coffee](#)

Your support helps keep this project free, open-source, and continuously improved.