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💹 Habit Tracker App - README



The Habit Tracker App is a lightweight and user-friendly tool to help users build and maintain healthy habits. Users can create daily or weekly habits, mark completions, view progress, and analyze performance through interactive visualizations.

Features

- Add daily or weekly habits
- Mark completions easily
- **Wiley** View completion history and streaks
- Visual habit analytics using Plotly
- I Logging of all actions and errors

% Technologies Used

• Frontend: Streamlit • Backend: Python

• Database: SQLite

• Visualization: Plotly, Seaborn, Matplotlib

Logging: Python's built-in logging

Project Structure

```
# Main Streamlit application
app.py
                  # Database operations (SQLite)
db.py
habit.py
                  # Habit class model
analytics.py
                  # Analytics and visualizations
- logger.py
                  # Logging setup
habits.db
                  # SQLite database file
                   # Log files
- /logs
README.md
                   # Project readme
```

How to Run the App

1. Clone the repository

https://github.com/mandylegend/IU_Habit_Tracker.git

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cd habit-tracker

2. Install required packages

pip install streamlit pandas plotly seaborn

3. Run the app

streamlit run app.py

App Screenshots (seperate screenshot pdf with explantion have been attached)

- Habit creation form
- Streak visualizations
- Completion history logs

(Include images in a folder if needed)

A Logging & Security

- All user interactions and errors are logged into timestamped files in the /logs folder.
- Ensures transparency and makes debugging easier.

% Future Improvements

- Add reminder notifications
- Build mobile-friendly layout
- P User authentication for personal habit storage

Credits

Developed by **Mandar More** with \heartsuit using Python and Streamlit.