Habit Tracker App - README

Overview

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
- 📊 View completion history and streaks
- 📈 Visual habit analytics using Plotly
- 🗃️ Data stored locally in SQLite
- 📜 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

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

How to Run the App

1. **Clone the repository**

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

```
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)

🔒 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
- 🔐 User authentication for personal habit storage

📣 Credits

Developed by **Mandar More** with ♡ using Python and Streamlit.