

Password Manager Web App – A Secure Online Tool for Managing Passwords

The **Password Manager Web App** is a secure and user-friendly **online tool that helps users store, manage, and generate strong passwords**. With increasing cybersecurity threats and password breaches, this application aims to provide **encrypted password storage, autofill capabilities, and multi-device synchronization** for users.

Key Features:

- **User Authentication & Encryption** – Uses AES-256 encryption to store passwords securely.
- **Password Generator** – Generates strong, random passwords for different accounts.
- **Auto-Fill & Browser Extension** – Allows automatic login to saved websites via browser integration.
- **Multi-Factor Authentication (MFA)** – Adds extra security using OTP or biometric authentication.
- **Secure Notes Storage** – Encrypts sensitive information such as credit card details and secure notes.

The backend is built using **Flask/Django with PostgreSQL/MySQL**, while the frontend uses **React.js/Vue.js**. The system encrypts all passwords **locally before storing them in the database**, ensuring that even if the database is compromised, the passwords remain secure.

This project provides a **highly secure, easy-to-use password management solution**, helping users **protect their online accounts** from cyber threats.