**Password Manager**

Software Requirements

1. User Authentication:

* Both Admin and User can sign in and sign up:
  + Sign In: Sign in application, it’s necessary to signed in.
  + Sign Up: Create a new user account based on the role.
* User Types:
  + Admin: Can view and manage, personal and team passwords. Also manage teams.
  + User: Can view personal and team passwords but only manage personal passwords.

2. Home Screen Options:

* Upon successful login, both Admin and User are presented with a home screen offering the following options:
  + My Passwords
  + Team Passwords

3. My Passwords (for both Admin and User):

* Add New Password:
  + Users can add new passwords, specifying the title, username, password, and any additional notes.
* Find Password:
  + Users can search for passwords based on keywords, titles, or other criteria.
* List Passwords:
  + Users can view a list of all the passwords they have stored.

4. Team Passwords (for both Admin and User):

* Find Password:
  + Users can search for shared team passwords based on keywords, titles, or other criteria.
* List Passwords:
  + Users can view a list of all the team passwords they have access to.

5. Admin-Only Features (in Team Passwords):

* Add Team:
  + Admin can create new teams and assign users to them.
* Delete Team:
  + Admin can delete existing teams, removing all associated team passwords.
* Manage Team Passwords:
  + Admin can access and control passwords specific to each team. This feature includes:
    - Add New Password for the team
    - Find Password within the team's passwords
    - List Passwords for the team

6. Security Features:

* Password Encryption:
  + All stored passwords should be securely encrypted to protect sensitive data.
* Role-Based Access Control:
  + Admins have access to team management and team password features, while Users can only manage their own passwords.

7. User-Friendly Interface:

* The application should have an intuitive and user-friendly interface for easy navigation and use.

**NOTE: Try to use *‘curses’* module to create elegant UI.**

8. Data Backup and Recovery:

* Implement data backup and recovery mechanisms to prevent data loss.

The End