Web-Based Password Manager

General

- Create a simple web-based password manager (Task-1)
- Create extra functionality on top of Task-1 to share passwords with your friends (Task-2)
- Focus on demonstrating your coding and architectural design skills. Show us what you've got!
- Choice of language/framework/libraries is up to you - but please choose components that you could use to build a high quality, maintainable, high volume website and please don't use boilerplate, templates, starter packs - we want to read *your* code.

Miscellaneous

- Provide your code as a public repo (Github, Bitbucket, GitLab etc) with commit history
    - Task-1 can be in master branch but Task-2 please provide in a separate branch.
- Include a readme that describes design choices you have made, setup instructions, etc
- Automated tests are optional but very appreciated
- Ideally, you should provide a test server, e.g. running on Heroku

Task-1: Simple web-based password manager

Requirements

1. Store passwords in a database
    a. Site name
    b. Site URL
    c. Login account name
    d. Login password (stored securely)
2. User Interface
    a. List all entries
    b. Add & Delete entries
    c. Click an entry to view & update details
    d. Click a link in details to open a site in a new window
3. Ok to cut corners on login/accounts/UI/etc
    a. e.g. you could just use a single hardcoded account for all actions

Task-2: Share passwords with your friends

Description

Password entry has a button to generate a link. Link can be copied and sent in the email, instant messenger, etc. This link gives someone access for 5 minutes to an entry from your Password Manager that you want to share.

Acceptance criteria

1. The link is only valid for 5 minutes
2. The solution can't use the database to store information about shared links
3. The link gives access only to one entry and not to all password manager