

Keyword

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Description

Keyword is an app that allows you to generate, store, and customize random passwords.

Serving as a secure location for the storage of passwords and utilizing a system to create unique pseudo random keys.

This promotes more secure account creation habits for all those who want to create/update passwords often.



Features

- User login and authentication
- Storage/Updating DB of personalized accounts
- Storage/Updating DB of user “Mods”
- Custom password generator
- Generator allows options to modify the output.



Planning - User Stories

A user may want to create a password that only they would find significance in. -They could accomplish this by creating a Mod library with significant sub strings and then passing them through the generator.

A user may want to save passwords they generate and associate them with accounts they already have / want to create. -They would travel to the accounts page and simply paste the key output from the generator and save it with an account name.



Planning - User Stories

A user may want to remove/update an existing account/mod. -They would accomplish this by visiting either page and using the remove mod function.

A user may want to create a random password but limit the type of mods that appear. -They can manage what mods appear in their keys when selecting input parameters on the generator page.



Planning - Database

The DB is comprised of three tables. A Users table, Accounts table, and Mods table. Each table shares a joined user_Id column to uniquely identify each record.

Using the user_Id column we can then display each account and mod for the currently logged user. As well as generate passwords using only their mods.



Technology Stack

- Java
- Spring MVC
- Thymeleaf
- MySQL / Hibernate
- Heroku deployment / ClearDB addon



Demo



What I Learned

- I dove much deeper into Spring and Java while working on this.
- I got experience developing classes from scratch to suit my needs.
- I learned how to manipulate bootstrap more effectively and incorporate custom CSS alongside it.
- How to utilize Spring Http Session to store and fetch useful data.
- How to deploy an app using Heroku.
- A great deal about setting up DB relationships.
- Proper practices for posting a Stack Overflow post.
- Invaluable experience problem solving and debugging





What's Next

- Develop some assets to create buttons and replace the navbar.
- I would like to add Bcrypt to hash certain bits of data. I plan on watching some tutorials and reading up on the documentation to incorporate this.
- I want to incorporate JavaScript to bring more life to the interactions on the site.

