Full Stack Development Project Demo

Anti Brutus - A Password Manager

Third Year, Semester 5, B. Tech Cybersecurity and Forensics

By: Group 8
Roll Numbers: 7, 10, 24, 25

Introduction

Anti Brutus uses a combination of the latest in Cyber Security techniques and the most advanced encryption algorithms to protect your data. We use a combination of Salting, Hashing with SHA-256 and Secure SQL Databases with fortified backend servers to ensure that your data is safe from any third-party. We also use a combination of the latest in authentication techniques to ensure that only you can access your data.
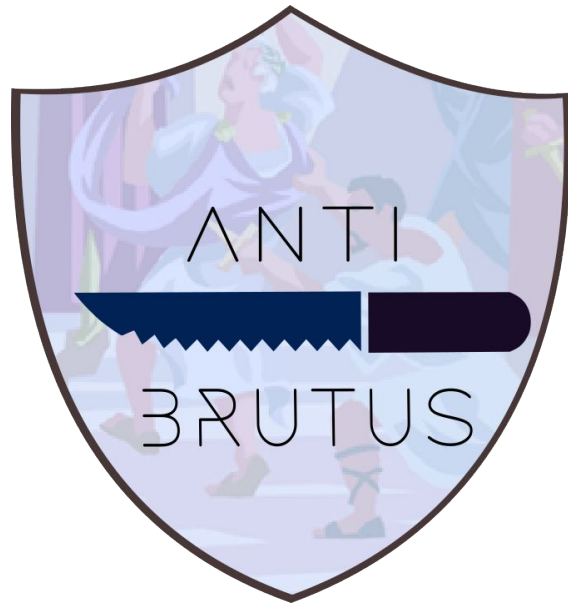
Usage

It's already difficult remembering all your passwords, and with more and more websites that require login, it is becoming increasingly difficult to remember all your passwords. This is where Anti Brutus comes in.

Anti Brutus is a *password manager* that allows you to store all your passwords in one place, and access them with a Single Master Password. This way, you only need to remember one password, and you can access all your passwords from anywhere in the world.
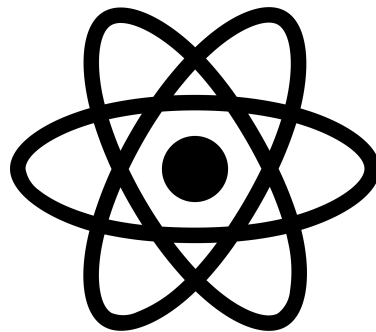
It is however, also difficult to maintain strong passwords for each new website that you visit, for this, we offer our Password Generator which allows you to generate strong passwords for each new website that you visit, and store them in your vault.
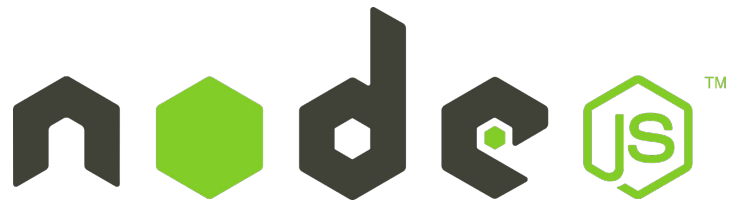
Technologies Used

1. Frontend
   a. React JS
   b. Tailwind CSS
   c. Daisy UI
   d. Hero Icons
   e. Tabler Icons

2. Backend
   a. Node JS
   b. Express JS
   c. MariaDB or MySql

Features

1. Generate Passwords using Unique Hash Scheme
2. Store Passwords
3. Near Unbreakable Security
4. Master Password Protection
5. AES Encryption
6. Envelope Encryption
7. Hashing and Salting
8. Suited for Mobile and PC Alike, Responsive.

Future Prospects and Improvements

1. Include a KDC
2. Include Authentication with Biometrics, or 2 Factor Authentication App
3. Include login with Google or Facebook accounts.
4. Include a Password Strength Meter
5. Ability to Export Passwords in CSV, and import that csv.
6. Store Credit cards and other information.
7. Better and Enhanced Search Features
8. Checks for Duplicate Passwords, or Weak Passwords
9. Check for Breached Passwords

Workflow and Architecture Diagram
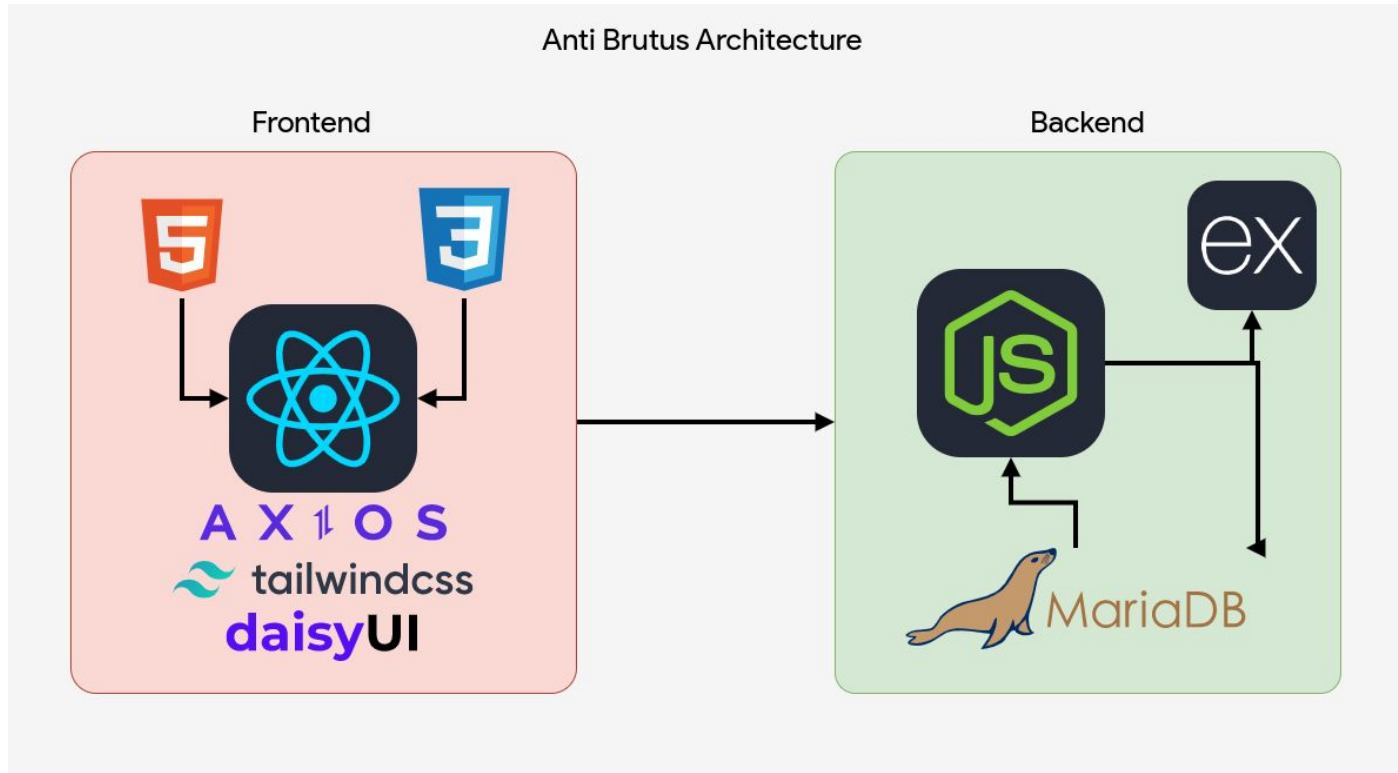
Anti Brutus Architecture

Screenshots

The Only Password Manager you need!

Never Forget, or remember a password ever again with Anti Brutus. A password Manager unlike any other, with a focus on security and ease of use. Built by a team of Bleeding edge Cyber security Professionals from MIT.

Head over to your Vaults to Begin!
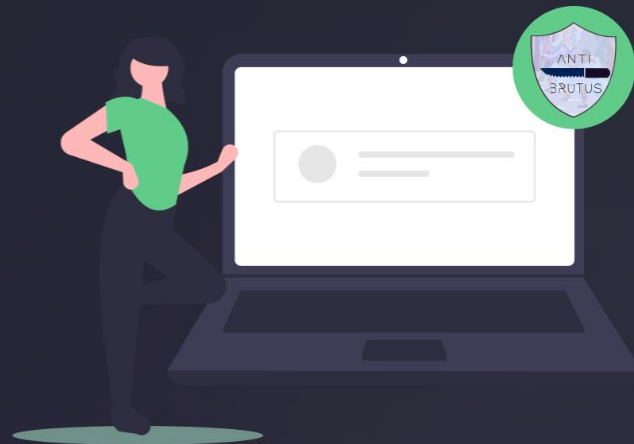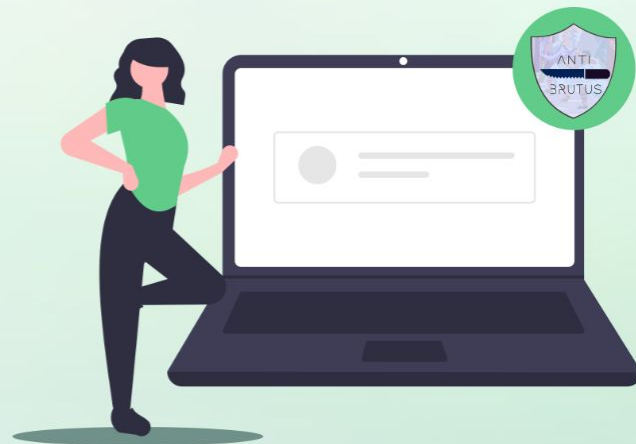
Vaults →

How Do we do it?

The Only Password Manager you need!

Never Forget, or remember a password ever again with Anti Brutus. A password Manager unlike any other, with a focus on security and ease of use. Built by a team of Bleeding edge Cyber security Professionals from MIT.

Head over to your Vaults to Begin!

Vaults →

How Do we do it?

Generate your Own Secure Passwords!

TRY

Tired of using the same password for everything? Annoyed at having to add symbols and Numbers to your passwords? Why not make your own unique password that is easy to remember and secure!

Random · Hashed · Master

Create A Random Password

Tweak Input Parameters

Include Numbers

Include Symbols

Include Uppercase

Password Length   8

GENERATE PASSWORD

Your Generated Password :

Generate!

COPY TO CLIPBOARD

Your Vaults

ADD VAULTS +

Favorites
Your favorite Passwords

OPEN →

Passwords
Your Passwords

OPEN →

Cards
My Card Details

OPEN →

Google Accounts
All my accounts associated with google

OPEN →

Random
miscellaneous stuff.

OPEN →

Vaults · Generate · About · Theme

Your Vaults

ADD VAULTS +

Favorites
Your favorite Passwords

OPEN →

Passwords
Your Passwords

OPEN →

Cards
My Card Details

OPEN →

Google Accounts
All my accounts associated with google

OPEN →

Random
miscellaneous stuff.

OPEN →

Passwords

Search

NEW PASSWORD +

Theres Nothing Here!

Details - New Password

SAVE 💾

Name

Type here

UserName

Type here

Password

Type here

👁

GENERATE ✏️

Length: 0

Website URL

Type here

Description

Bio

🗑 **DELETE**

Passwords

Search

NEW PASSWORD +

Name	Username	Date
amazon	krishnaraj	2023-09-02
google	krish	2023-09-02
Whatsapp	random	2023-09-02
Github	krish	2023-09-02
Chat GPT	krish	2023-09-02

Profile

Name: Krishnaraj Thadesar

Registered Email: kpt.krishnaraj@gmail.com

No. of Passwords Saved: 5

No. of Vaults: 5

References

[1] DaisyUI, Tailwind CSS plugin for beautiful UI components,

https://daisyui.com/

[2] Hero Icons, A set of free MIT-licensed high-quality SVG icons for UI development,

https://heroicons.com/

[3] Tabler Icons, Over 1250 free MIT-licensed high-quality SVG icons for you to use in your web

projects,

https://tablericons.com/

References

[4] Tailwind CSS, A utility-first CSS framework for rapidly building custom user interfaces,

https://tailwindcss.com/

[5] ReactJS, A JavaScript library for building user interfaces,

https://reactjs.org/

[6] Bitwarden, A password Manager,

https://bitwarden.com/

Thank You!

Team, Anti Brutus