

# Secrets

## Project Description:

- Secrets is an application that allows users to share their secrets on social platform.
- In order to share secrets, a user has to Register and Login.
- Using Passport and Google Authentication API for verifying users and maintaining application security.
- On successful authentication user can share multiple secrets.
- This project is developed as part of learning the necessity of Authentication and Security, understanding and implementing Web Development technology.
- Tech used: HTML 5, CSS 3, Bootstrap 4, JavaScript, Node JS, MongoDB, GCP

The image displays three screenshots of the 'Secrets' application interface. The first screenshot shows the main landing page with a large key icon, the title 'Secrets', and the tagline 'Don't keep your secrets, share them anonymously!'. It features 'Register' and 'Login' buttons. The second screenshot shows the 'Register' form with fields for 'Email' and 'Password', a 'Register' button, and social login options for Google and Facebook. The third screenshot shows the 'Login' form with fields for 'Email' and 'Password', a 'Login' button, and social login options for Google and Facebook. Below the login form, there is a message 'You've Discovered My Secret!' and a 'Log Out' button, and a 'Submit a Secret' button.

## Learnings:

- Learn 6 levels of authentication –
  - LEVEL 1 : username & password
  - LEVEL 2: Encryption
    - Plugins - add extended functionalities to existing packages
    - Never put AWS or Github or any encryption key on internet
    - Environment Variables to hide secret keys
  - LEVEL 3: Hashing
    - Using MD5 API
  - LEVEL 4: Hashing & Salting
    - Salting is done by using BCrypt library
  - LEVEL 5: Cookies and Sessions
    - PASSPORT: Simple, obtrusive authentication for Nodejs  
<https://www.passportjs.org/packages/>
    - It is authentication for middleware for Nodejs
    - A comprehensive strategies support authentication using a username and password, Facebook, Twitter and more.
  - LEVEL 6: Third party OAuth 2.0 - Open Authorisation
    - Providing third party authentication using Google Cloud Platform as third party authentication and implementing with the help of passport  
<https://console.developers.google.com/>