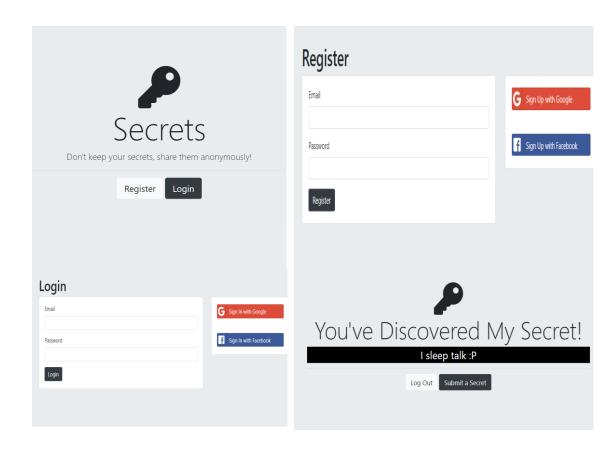# Secrets

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, Boostrap 4, JavaScript, Node JS, MongoDB, GCP

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.O - 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/