COMP.2300 - Intro to Computer Security

Course Project Milestones 1-3

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Security

User registration and login is handled using the python bcrypt library. This library allows for out-of-the-box simple credential management, allowing a user to simply encrypt a password, and check to see if a given password matches another’s encryption. See lines 43 and 80 of registrar.py. These password hashes are then stored alongside the user’s email address and name in a file entitled credentials.json:

A black screen with white text

Description automatically generated

credentials.json

Currently, credentials are stored in a file called contacts.json and are unencrypted. It stores each contact as an email with a name field.

A screen shot of a computer

Description automatically generated

contacts.json

This file is currently unencrypted, but this will be resolved for the final program. Ideally, this will be combined with the credentials.json file in a userdata.json file, where the user data stored above, that being each user’s full name in addition to their list of contacts will be encrypted using the user’s password.