# **Secure Software Development Team Project**

# **Meeting Notes**

SecureSpace

**Date:** 21/05/2023 **Time:** 02:00 PM BST

Location: Online, Google Meet

#### Attendees:

Bradley Graham

- Rachel Doherty
- Tomas Mestanza
- Michael Sammueller

## Research, Data & Brainstorming

The team discussed their research and data gathered throughout the week, features of the software product, as well as security concerns and external libraries.

- Hashlib vs bcrypt The team discussed both libraries and decided to use the bcrypt library.
- The team discussed assumptions that will have to be mentioned within the design document (astronaut training, etc.).
- The team discussed threading and concurrency, potentially in the form of a timed cognition check.
- The team discussed databases.
- The team discussed how to interrupt Python "input()" statements.
- The team discussed implementing a voting system to ensure changes are agreed upon.
- The team discussed security vulnerabilities, concerns, and features.
- The team discussed distributed systems.

### **Concurrency & Threading**

The team discussed concurrency and threading and how to implement them.

- Timed inputs
- Cognition checks
- User logging
- A process running in the background that logs out the user if idle for too long.
- Download manager that continuously checks if files have been updated.

### **Databases**

The team discussed databases and database features.

- SQLite3
- JSON files
- Distributed databases and local repositories
- Backup databases
- Storing files or file paths in the database rather than raw text
- Logging user activity
- Separate database for passwords
- Limiting storage in the database
- Deleting data after a certain period of time or once a mission has ended
- "SELECT ... FOR UPDATE" statement in SQL to lock a row

#### **Decisions**

The team agreed to the following:

- The system will use SQLite to store data.
- The system will use bcrypt, as recommended by OWASP, to encrypt passwords.
- The team will follow an object-oriented programming paradigm.
- The program will run on a central terminal rather than a network. Astronauts will have to download data and send it to mission control.

## **Actions**

The team agreed to the following action(s). These actions shall be completed in preparation for the next meeting.

 The team will collaborate on objects and methods for a UML Class diagram on Google Sheets.

Next Meeting: The next meeting is scheduled for the 28th of May at 02:00 PM BST.