**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.