

Secure Software Development Team Project

Meeting Notes

SecureSpace

Date: 28/05/2023

Time: 02:00 PM BST

Location: Online, Google Meet

Attendees:

- Rachel Doherty
- Tomas Mestanza
- Michael Sammueller
- Dr. Cathryn Peoples (Tutor)

Research, Data & Brainstorming

The team discussed libraries and external tools, databases, sensors, the design document, and classes.

- System functionality
- Roles in the system (Astronaut, Admin, Superadmin)
- Admin would be in charge of the astronauts on their mission and be able to approve changes (data deletion etc.)
- Superadmin would be able to create user accounts, assign roles and privileges, as well as run SQL queries.
- Temperature/Radiation Sensor sending data to the application to demonstrate threading and concurrency. (Dr. Peoples suggested that this data would not necessarily have to be stored.)
- The team still wants to use SQLite3, but we are aware that we may need to use a different database if certain features are added (e.g. concurrent users)

Decisions

The team preliminarily agreed to the following (pending approval/vote from Brad):

- We will implement sensors (temperature/radiation) to demonstrate threading and concurrency, as suggested by Dr. Peoples.
- The system roles will be Astronaut, Admin (Observer/Moderator), and Superadmin.
- We will add a Sensor, Role, and Permission Class to the diagram.
- Superadmins will issue user accounts with a temporary password, which will have to be changed upon initial login.
- The system will be built with a microservice architecture in mind, so parts of the program can be altered without affecting the overall system.

- We will use bcrypt (as recommended by OWASP), although NASA demands NSA-approved algorithms (as approved by Dr. Peoples, the reasoning being that NSA data is currently behind a paywall.)
- We will map our project against OWASP requirements
- Meetings will be recorded from now on via screen record, as it is valuable ePortfolio evidence (as recommended by Dr. Peoples).

Actions

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

- The team will continue to collaborate on the Classes, Attributes, and Methods.
- The team will research whether SQLite3 databases can be encrypted.
- All existing UML diagrams will be updated.

Next Meeting: The next meeting is scheduled for the 4th of June at 02:00 PM BST. There may be an additional meeting on Friday, the 2nd of June, to work on the final draft of the design document.