## Agenda for Ninth Meeting

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| **Skyward Federal**  **COPS Platform** | | **3/19/2020**  **1:00 PM to 2:00 PM**  **Google Hangouts**  [**https://meet.google.com/ixn-exid-doj**](https://meet.google.com/ixn-exid-doj) | | |
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| Type of meeting: | Progress Updates | Note Taker:  Facilitator: | Jeen Shaji  Caleb Boswell | |
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| Invitees: | Jonathan Balliet, Jeen Shaji, Daniel Mills, Caleb Boswell, Spencer Yoder, Erin Kotlyn, Danny Caudill | | | |
| Please read:  Meeting info: | Questions Below  <https://meet.google.com/ixn-exid-doj> | | | |
| **Agenda** | | | | |
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| Agenda Overview | | All | | 5 min |
| Updates | | All | | 15 min |
| Questions | | All | | 10 min |
| Action Items & Next Meeting | | All | | 5 min |
| **Additional Information** | | | | |
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| Resource persons: | Dr. Jason King, Ms. Margaret Heil, Mr. Richard Kaufman, Erin Kotlyn, Danny Caudill, Ryan Carr | | | |

**Update**

* Spring break extended by one week
* All classes moved online
* Course Manager updates
  + Coverage tool working - coverage at 95% for iteration 1 code
  + Course Manager working with PostgreSQL Database
  + Use cases for user functionality (UC1, 2, and 4) are pretty much finished
  + Jeen and Caleb are working on implementing the remaining use cases
* Container runtime updates
  + Container Runtime implementation is almost complete!
  + Initial Dockerfile created for Course Manager
  + Course Manager works running inside the Docker container (using CentOs7 base Docker image) and communicates with Postgres DB running on the host machine.
  + Able to support multiple containers running. Using a thread to monitor each running container to see if the user session is still active by contacting a special “health-check” endpoint. Shuts down the container if the session is inactive.
  + Can demo the Container Runtime and/or do a code review
  + Still need to integrate the Docker container with SELinux
* SELinux updates
  + Custom security policy successfully installed.
  + Working on a script to simplify the process
  + Working on documentation for our discoveries:
    - <https://docs.google.com/document/d/1feUvzFwwyJDRhkZPnw_jfaSt4-X368f885zLaq-19Ug/edit>

**Questions**

* Container Runtime
  + (After demo/code review) Are we covering all of the functionality in our implementation of the Container Runtime? Is there anything we are doing wrong/need to change?
    - Above and beyond. Perfect for them
  + Is it necessary for us to handle network connection issues? For instance, trying to restart the container if the thread we are using for monitoring can’t access the endpoint? Or should we just shut-down the container if this occurs?
    - Just stop it because there’s probably a security issue. Very smart decision!
  + How important is performance? Is there a specific limit on the amount of time it should take from the when the user sends the service request and the Course Manager application is started on the container?
    - No time limit pertaining to us.
    - Flask running -> kubernetes?
* Logging
  + Where should the logs of each component be stored? In a file or in our Data Storage component?
    - Try logging in syslog. So that we can config to send syslog -> outside file. Google for a library that can do this.
    - While it runs, all containers forward logs through syslog. Command line, pass through var log messages (-vol)
  + Is there a specific format we need to adhere to when logging (besides using UTC as the timezone)?
    - Tell python to use syslog instead of general one
* Long term : Example rest application to demonstrate content filtering. Use this to set up a browser with the course manager. SOApp? More strict version of REST.
* Do we need to add GitLab to our SSH config file? Or is there another way to do it?
  + - Local terminal you ssh -keygen , id\_something.pub -> it should default to using this.
    - Reverse proxy

**Next Meeting**

* Thursday, 3/26/2020