Supplement 1: Feedback survey on use of CAS for EHR data

Announcement on Canvas LMS:

Dear class,

Please answer the questionnaire to share your feedback, based on the use of EHR data from OpenMRS in the INFO-B513/INFO-B535/HIM-M200 courses that you have taken. We use a central authentication service to login to Canvas and provide data from OpenMRS into your assignments. We are conducting research to understand how you perceive the benefits of this integration. All questions on the survey are open-ended and there are no right or wrong answers. Please describe at length your perception in these answers. There will be no bonus points to take this survey.

Questionnaire: (the italic text is not in the questionnaire but our analysis guide)

Q1. Describe the way in which you login to the OpenMRS, as well as Canvas to work on assignments that use patient data? – *this is to understand if they follow the known workflow or use workarounds.*

Q2. Which assignment was the most rewarding in terms of learning outcomes? What was the role of EHR data in those assignments? – *this is to understand the relationship to use of EHR data.*

Q3. Which assignments was the least rewarding and mundane? What was the role of EHR data in those assignments? – *verifying if the same concept is reinforced from previous question.*

Q4. How many times did you have to use your username and passphrase? When and where? – *to verify that the integration worked in all assignments.*

Q5. Provide three advantages of using integrated login system between OpenMRS and Canvas in the way you worked on the assignments.

Q6. Provide three disadvantages of using integrated login system between OpenMRS and Canvas in the way you worked on the assignments.

Q7. Can you briefly explain the architecture by which login session is shared between OpenMRS and Canvas? – *this was to test how black boxed the CASAuth implementation is.*

Q8. What others tools from the HI or HIM program would you like to see integrated with common login, particularly those that you use in this course or other course assignments? – *finding use-cases where common authentication is useful.*
Q9. What other tools do you use for course work that you believe should not be integrated with the common login system? – finding use-cases where common authentication is not useful.

Q10. Please provide detailed feedback on the OpenMRS system - its usability, functionality and the data that was available to use in assignments – evaluating the limitations of OpenMRS and the subset of data accessible through user role.