# Memo

**To:** Christopher Elliott

**From:** Ryan Somers, Pierre Badra, Sebastian Burke, Joshua Magnan, Sabrina Tochkov

**Date**: October 17th, 2024

**Subject**: HIA3 Technical Risk Discussion

Hi, Christopher,  
Here is a breakdown of our discussion for K40 A02 Section 2, Part C.

**AMS Replacement Configuration**  
Application code: HIA3  
Roles within HIA3:  
 Admin: To oversee all apps and users  
 App Owner: To create Users and Roles for their respective applications  
  
**Changes to be** **made to AMS:** Since our app (HIA3) is the replacement app for AMS, we were responsible for creating a prototype of the Login API. We have not had the time to fully design the database behind this, so our solution is not perfect, but it will do for now. Working on this prototype has given us a better idea of what the API will need to look like in the future.

**Technical Risks/Investigations - Current & Ongoing**  
Since we will no longer have access to Clara (which contains student and teacher data) and the College’s LDAP, we had to investigate alternatives to create HIA3, the replacement app for AMS. We spoke with Chris and Richard about what will happen with LDAP, and it was discovered that it has been (and is being) migrated to a Cloud-based AD, so we will still be able to authenticate through the college. What remains to be solved is how to store student data without being able to pull it from Clara.

In the Systems Maintenance course, our applications are being refactored and features are being added so that teachers must import an Omnivox-generated list of students, which are then added to AMS. It works as a temporary solution, although it requires an extra step on the teacher’s part. Keeping information up to date through business cycles is also a concern that will need to be investigated.

On Oct 24th, we were informed of an increase in scope, which was to add a SOAP API that mimics the functionality of the original AMS, to ensure that past apps still work with it. In other words, we need to figure out a way for legacy apps to use SOAP. The only change required would be to the API URL, but the rest should work the same.

Thankfully, we have access to the source code for AMS, as well as its database tables & stored procedures, so we have some resources at our disposal to better understand how to design our application with its increased scope.

Our current database schema is **janky** at best, it needs to be refactored to properly update for what is needed. Once we get to the Design phase, we will be able to have a clearer picture of what we are building and how to ensure that it meets the business needs of our client.

Richard, our client, has visited us on multiple occasions, so we’ve had the opportunity to establish a name (HIAAA or HIA3), demonstrate our current UI/UX design and explain our diagrams outlining the functionality of the application. Knowing this, we determined that we wouldn’t need to organize another meeting with him to discuss technical risks, as he is aware of them.

**Next Steps**  
Continue research into existing AMS application and current IAAA applications out there in order to better understand how to model ours when we move on to the Design phase.

If you have any feedback or want to discuss this further, please reach out.