# Background

The A4L North American Tech Board (NATB) has been looking for an opportunity to create an open source implementation of SIF that encourages software developers to adopt the standard. The lack of a physical implementation is a pronounced disadvantage for A4L when compared to Ed-Fi or Clever, who both provide open source or free tools to their communities. The Generate project offers just the opportunity the NATB was looking for; Generate is built on the CEDS Normalized Data Schema (NDS) and the SIF 3.x data objects are aligned with CEDS. The ability to also use the SIF 3.x endpoints with other projects that implement the NDS. Piggybacking on the success and momentum of Generate will bring positive attention to A4L, which can lead to further adoption of SIF.

# Objectives

* Establish an online community around CEDS and A4L open source projects that encourages developers to create software based on modern education data and technology standards.
* Enable states to quickly and easily integrate their home grown and vendor systems with Generate via SIF 3 technology.
* Improve data integration and quality amongst and within education agencies.

# Scope

* Define the practices and processes that will govern the development of the SIF 3 APIs.
* The development team will initially focus on developing SIF 3 API endpoints that will service the existing Generate reports. Expansion to other SIF or CEDS objects will be driven by user demand.
* A “developer portal” will be created to showcase the SIF 3 API endpoints, the CEDS NDS, and other projects that can be used by software developers to build education applications. Vendors that participate in the development of this project will be able to advertise their involvement from this portal.

# Project Timeline

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ACTIVITY** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** |
| **Establish Open Source Project** |  |  |  |  |  |  |  |
| **Define SIF 3 API Scope** |  |  |  |  |  |  |  |
| **Align SIF 3 Objects to CEDS** |  |  |  |  |  |  |  |
| **Design Project Architecture** |  |  |  |  |  |  |  |
| **Develop SIF 3 Endpoints** |  |  |  |  |  |  |  |
| **Market the Project** |  |  |  |  |  |  |  |

# Resources

There are no additional resources needed from A4L to complete this project. The volunteer staff committed to the project will be enough to complete this work outlined above.

# Possible Software Architecture

