

902403 - Expedition DB Modern

Week 28

1. Brian Schlining
 - a. Updated [code that migrates the existing database to the new design](#) to match changes in the database schema.
 - b. Investigating the use of SQL Server's [columnstore indexes](#) for the data tables that hold many 10s of millions of records (e.g. CTD, Navigation, etc). Running load tests against <https://github.com/mbari-org/expd-rest-api>. (Access to data will be [here](#))

Week 27

1. Brian Schlining
 - a. Investigating [data pipelines](#) for new EXPD. Added [data transforms for derived oceanographic data](#) (they were previously in stored procedures).
 - b. Added endpoints to [emulate the existing data access servlets](#) on coredata.

Week 24

1. Karen Salamy
 - a. Reading through Brian's proposal for next year.
2. Brian Schlining
 - a. Working on 2027 proposal
 - b. Working with Kevin, Andrew, and Travis on cross-app authentication using Entra.

Week 23

1. Kevin Gomes
 - a. Working on connecting new auth template to REST API
2. Brian Schlining
 - a. Working on the 2027 project proposal.

Week 21

1. Kevin Gomes
 - a. Starting to integrate BFF pattern with Quarkus API and Entra for SSO

Week 20

1. Brian Schlining
 - a. Get [shipdata share access](#) set up for the [expd-dev server](#).
 - b. Work on supporting file uploads, linking to data in EXPD, and archiving into shipdata

Week 19

1. Brian Schlining
 - a. Adding [additional migrations](#) and improvements to the [REST API](#).
 - b. Added support for uploading and association arbitrary files to expeditions, dives, and people.
 - c. Added support for creating points-of-interest and associating them to expeditions, dives, and devices.
 - d. Working with Kevin Gomes and IS on moving from Duo to Entra for authentication.

Week 15

1. Kevin Gomes
 - a. Starting to migrate older python/perl scripts to more modern python with Prefect, Prometheus and Grafana.

Week 14

1. Brian Schlining
 - a. A lot of work updating the design of the new database and supporting infrastructure.
 - i. <https://github.com/mbari-org/expd-rest-api>
 - ii. <https://github.com/mbari-org/expd-support>
 - iii. <https://github.com/mbari-org/expd-quickstart>
 - b. Wrote an abstract for extending this project for one additional year.

Week 13

1. Brian Schlining
 - a. Added data migrations between the existing database and the new design for ROV CTD config related tables, video assets and Waypoints. <https://github.com/mbari-org/expd-support>
 - b. Refactoring design to allow external files (web hosted) to be attached to expeditions, dives, people and devices. Also refactoring waypoints into points-of-interest that can be associated with dives or expeditions. <https://github.com/mbari-org/expd-rest-api>
 - c. Added support for publishing notifications for creating/update/delete objects to Nats for notification support.

Week 9

1. Brian Schlining
 - a. Met w/ Kevin Gomes to discuss next steps for development.

Week 6

1. Kevin Gomes
 - a. Met to talk about authentication schemes for API and X-API-Tokens

Week 5

1. Kevin Gomes
 - a. Getting restarted on the data loading side of the API