

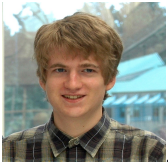
# The Off By 1s

**Introduction:** The Ministry of Environment(MoE) receives hundreds of fish data submissions annually. There are over 400 companies in BC that submit fish data as part of their work. Generally, the submissions are in such conditions that many contain either data errors and/or are missing critical information. Without an automated process in place for quality assurance of the submitted data, Ministry personnel must spend an inordinate amount of time checking and editing the submissions by hand. This process is a significant time sink, and loading data into the corporate system is becoming untenable because of the slow pace of manual data QA, and the volume of submissions.

In addition to the time spent correcting fish data submissions, significant time is needed to handle the fish data once it has been corrected. The multiple steps, and current convoluted path the corrected data files take during processing also contribute to further inefficiency. Our project team, *The Off By 1s*, aims to improve both processes for the MoE by developing two software solutions.

**Project:** This project will improve both processes. By providing a *Fish Data Submission Quality Assurance Tool* for the Ministry to distribute to submitters, they may assure the quality of their data at the time of submission. The aim is to provide a tool that will allow the data submitters to ensure that the quality of data being submitted is sufficiently accurate before it reaches the MoE. The project scope also includes a *Process Management Tool* for internal use by MoE Victoria staff. The *Process Management Tool* will provide a common interface to navigate the many programs, files, and scripts involved in the processing of the fish data submissions

Team Members:



**Jackson Williams:** Jackson Williams has been interested in programming from a young age. After completing the Computer Systems Technologies program, he plans to work in the software development industry. He enjoys backpacking and creates small computer games as a hobby.



**Dan Sparkes:** After working in the trades for the past decade, Dan looks forward to starting a career in the world of computer programming. Dan's hobbies include record collecting and DJing.



**Evan Churchill:** Evan is excited to start a career after getting his Computer Systems Technologies diploma. He is a big techno music enthusiast, and can also often be found in the gym.

**Conclusion:** Thank you to the MoE staff for selecting us to develop software for them. *The Off By 1s* plan to create effective, efficient software for the MoE, and for many other projects in the future!