

## **Drillinginfo: DI Launcher**

### Client:

Michael Ewing, Systems Architect, Drillinginfo (michael.ewing@drillinginfo.com)

### Background:

The DI Transform software is a full-featured oil and gas interpretation, visualization, and analysis desktop application written in Java. It stores and integrates data from multiple databases both locally and over networks. Drillinginfo primarily delivers SaaS solutions and we are pursuing integrating the Transform platform with our web platform this year. The two major integration points our client credentials / entitlements and dynamic updates. Both of these will be accomplished through a launcher application similar in concept to modern MMOs.

### Project Goals:

The main goal of the project is to provide an Electron based desktop client that can do the following

- Connect to our entitlement services (existing code with node.js or angular)
- Provide a news feed from AWS
- Download the latest set of plugin jars for the application
- Provide a locally secure way to launch the application

The project should emphasize an extensible design for adding other applications and configurations down the road. We need to be able to validate that the launcher and the jars are authentic and prevent the clients from launching the applications independently of the launcher. Our platform team will provide storage and services on our backend or AWS to support the project.

### Above and Beyond:

- Provide plugin update scanning and replacement (continuation of last year's field session)
- Provide release indexing and a way for users to repair their installation
- Move launch configuration parameters into UI
- Allow updating of the launcher

### Suggested Team Size:

2-3 students

Some onsite work (Littleton office)

### Skillset:

JavaScript

Web Services

Java

Potential for continuing work through a summer internship at our Littleton office.