

## BUSINESS REQUIREMENTS

The customer is a large manufacturer of DNA Sequencing and Bioinformatics machines, wanted to build a set of tools for downloading data - that is generated during DNA sequencing - from a cloud server to a local setup and build workflows around the same.

### Our Solution

- ❑ AFL's Technology Services team designed, architected and developed a set of tools on a proprietary application platform for on-demand downloading of data from a cloud environment to a local environment. Additionally, basic workflows for DNA sequencing and data analysis were also built-into the sequencing machines that generated the data
- ❑ Some of the key features developed by the AFL team were:
  - Apps for DNA Sequence Analysis, on a proprietary app store platform running over Amazon Web Services.
  - Development of file system that mounts DNA sequencing data from remote cloud storage to local machine, with on-demand download.
  - Development of workflows on sequencing machines, for DNA Sequencing and Data Analysis.
  - Development of downloader utility to schedule and download large volume of DNA sequencing data from cloud storage.

### Technology Stack



Angular JS, Selenium, Linux, Windows, C#, C++, Karma-Jasmine Test Runner, Protractor Test Framework

