**Demo Script:**

Our Qvx Writer node converts a KNIME data table into a Qvx File. The generated Qvx File can be loaded into QlikView, and the user can use this data to create a data visualization, such as a chart or graph. In this KNIME workflow, we have already loaded a dataset related to customer survey results. Our end goal of this demo is to produce a dashboard in QlikView based on this data. First, we have to generate a Qvx File. So we drag our Qvx Writer node to the Workflow. Then, we have to set the name and location of the output file. We will overwrite the file if it already exists. Our Writer Node also allows the user to choose how the data should be stored in the Qvx file. This panel here gets the default Qvx data type, based on how the data is stored in KNIME. We can overwrite the default data type. We will store Date\_Of\_Job and Time\_Of\_Job appropriately. The Latitude and Longitude columns default to UNKNOWN type, which refers to decimal numbers. We will store these values as numbers rounded to 1 decimal place. Now, we save our settings, then we execute our node.

Now, we go to QlikView to verify that the file was generated correctly. We can see that the dates and times are stored correctly and latitude and longitude are rounded to 1 decimal place. We load our generated qvx file, and we can see a dashboard that is based on the original dataset.

**Project Strategy Details:**

We had to install a Knime plugin which allowed us to create KNIME nodes in Java. We had to use the JAXB library to parse the XML portion of the qvx file.

**Project Strategy and Class Diagrams:**

This is our class diagram. The NodeDialog class is the user interface. The Node Model implements the reading and writing of Qvx files.

**Work Breakdown**

We divided the project into manageable chunks, so we could stay organized.

**Risk Management**

One of the challenging parts was integrating our nodes into KNIME, which we resolved by using a KNIME plug-in.

**Stakeholders**

Some of our stake holders include NJIT, KNIME, Qlik Tech, and our sponsor, Analytiq.

**Ability to Validate**

We met with each other and with our sponsor face-to-face to discuss our progress and what needed to be done next.