In Isynet a lot of our systems are about collecting data and making it searchable.

One such area is data about trading, import and export of goods from various countries.

To better get an understanding of you, we made a small assignment based on a real project with real data.

In this assignment we included a .xlsx file with export data from June 2016 in India.

The file contains almost 100.000 rows making it cumbersome to use through Excel (especially as this would be just one of multiple files in the real system).

Your task is to create a simple web interface to make searches in this data.

There needs to be a web frontend where users can specify their search parameters. The backend should perform the search and the results should then be shown in the frontend.

The first priority of the users is to search the product descriptions in the column named "Product", but they often search for companies in "IndianCompany" or "ForeignCompany" too.

You are rather free to choose how you want to solve the task and what technology to use.

However, make sure you use Python for building backend and processing excel file.

In Isynet we would solve this using Python with Flask or Django as backend. Pandas or openpyxl for loading .xlsx files. The frontend would be React, Angular or maybe just plain html with some jquery.

Think about how to store the data, how to search it based on the query, how to specify the search query, how to visualize the result.

Does the data need to be preprocessed? In what ways are the amount of data a problem? In what ways will the problem escalate as more data is added in the future? Are there any usability concerns?

Please add the approximate numbers of hours spend on the different parts in the assignment.