Hello,

I am sharing a coding Exercise that you need to submit by Tuesday.

A lending company, BigLender, runs its operations on AWS and needs to run scheduled jobs every night to fetch data from multiple partner systems. One of the partners, ChhotaChetan, has data on daily transactions logged for their specific lending channel.

The relevant data resides on a specific table of a Postgres database hosted on Azure. The table contains 100000 rows and the database must be polled to perform a series of operations on all the rows in the table:

1) from every row, values corresponding to 3 pre-defined columns (**loan\_id, loan\_amount, loan\_date**) must be selected.

2) the selected row data for the columns is formed into a valid JSON object (assume field names to be the same as column names) and the POST method for a reporting REST API is invoked. For each individual row, this API must be fired.

3) the REST API is the interface to a reporting data store service created by a third-party SaaS solution.

4) On successful invocation of the API, a transaction ID (**TxID**) is returned. A failure to commit data to the API results in an error response.

5) the values corresponding to the 3 columns (**loan\_id, loan\_amount, loan\_date**) along with the transaction ID (**TxID**) are committed to a MySQL database hosted on BigLend's AWS cloud.

1) Draw a sequence diagram to represent the problem statement

2) Draw a sequence diagram showing all the components/services needed to represent your proposed solution flow.

3) write a program to fetch and record data from ChhotaChetan as defined in the problem statement. Assume placeholder values wherever needed.