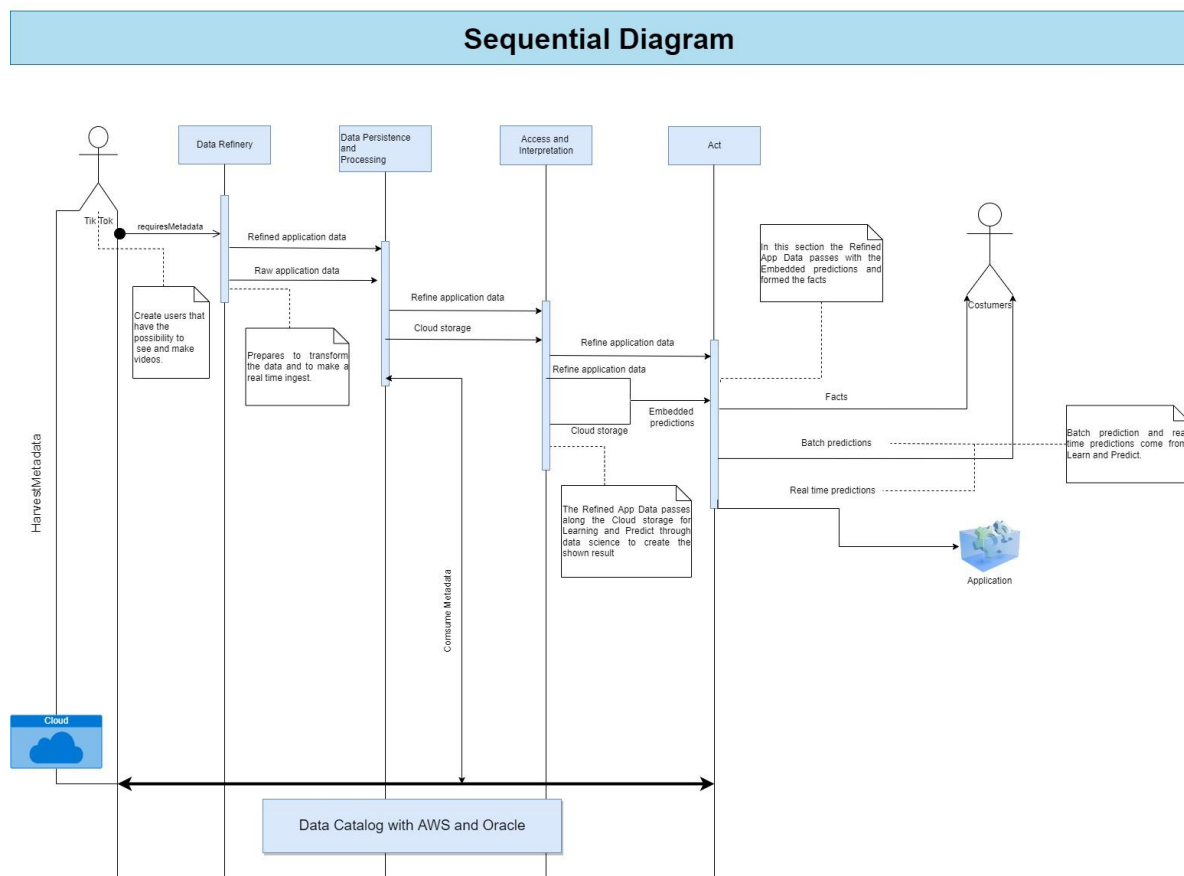**Nicole Günther Guerrero**

ID: 158325

23/02/22

Polyglot Data management on the Cloud

For this project we needed to design and specify a cloud-aware polyglot database solution based on services. I did the diagrams with Ian de Gyves since we worked out what needed to be done together, everything else was done individually. The design of the polyglot database was constructed using the ETL processes, I decided to use Tik Tok as an example.

The design was made using a sequential diagram to show the live and interaction of every function. On figure 1 we used the ETL (extract, transform, load) processes, tik tok extracts metadata completing the extract aspects of ETL. In Data Refinery the data is transformed. Data Persistence and processing, Access and Interpretation loads the data and sends it to act where the data is given to the customer and the application.

Sequential Diagram

To understand what the MyNet application needs, a Class Diagram was made following UML rules. This is shown on figure 2, where four main classes are described: Contact, ProfileInfo, Group and Email.
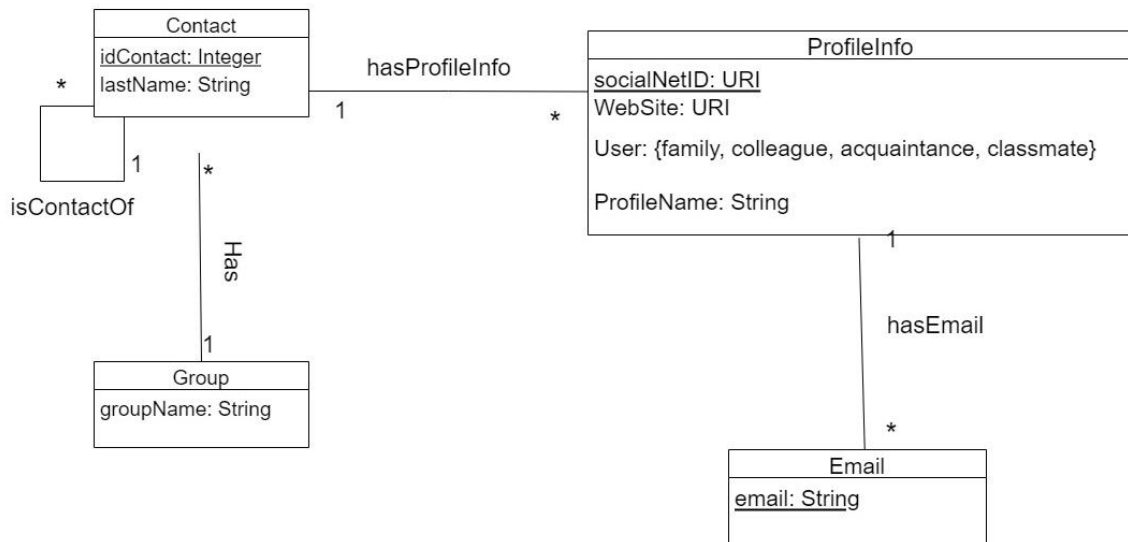

Figure 2: Class diagram.

The diagram showing how everything interacts is shown on figure 3. As we can see, the application MyNet isn't in direct contact with the social networks. The Databases and Amazon Web Services provides all the information it needs.
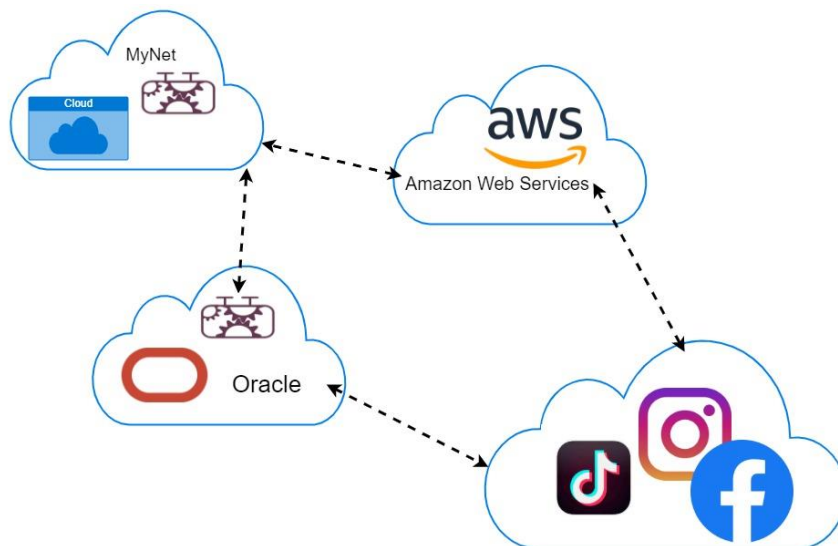

Figure 3: Interaction of processes with the application.