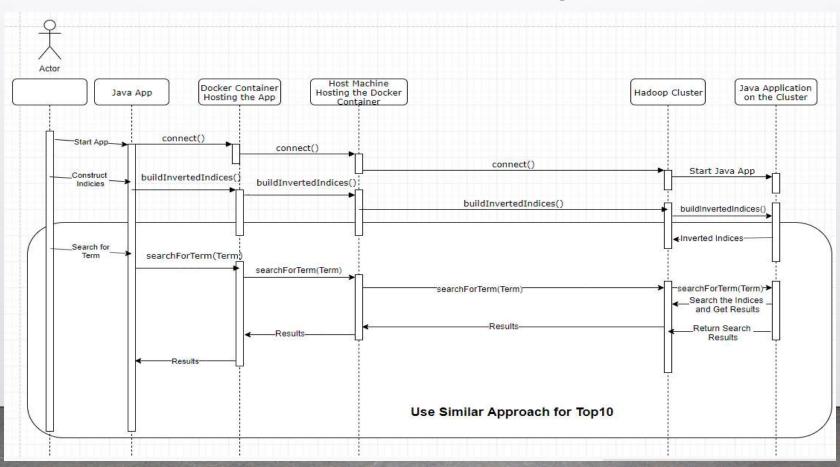# Cloud Computing

Course Project

Project Requirements

- You are required to develop two Java Applications.
  - First application communicates with the User (accepts user input and displays the output). This application is deployed on Docker container.
  - Second application processes User requests (such as constructing Inverting indices and processing user search requests). This application is deployed on the Hadoop Cluster.
    - While constructing inverted indices, your application should leverage secondary sort algorithm.
- Use the Project Mockup PDF in the assignments section as guide for understanding the project requirements.
- Next page has Proposed Sequence diagram.
  - You don't need to follow the sequence. It's clarification for the communication theme required for the project.
- Your application should leverage the concepts that were studied in the course such as counters, profiling, logging, ..etc.
- Graphical User Interface is not required for this project.
  - Use Command Line input if you will not design User Interface.
- Use the data files uploaded in the assignment section.
  - For simplicity, you can limit your application to the data files provided in the attachment section.

Proposed Pseudo-Sequence Diagram

Extra Credit

- User Interface similar to the project mockup (+5 course points).
  - Starting Tutorials for UI design using NetBeans IDE
    - https://netbeans.org/kb/docs/java/quickstart-gui.html

- Implementation of Inverted Indexing using Spark (+5 project points).