

Quiz01: Everything about Big Data

Part A – Big Data application in practice

Present your understandings of **a practical Big Data application** while addressing the following points:

1. General information of the application such as name, organizers (i.e., who created it), and audiences (i.e., to whom it serves)
 - The chosen application could be either an industrial or academic project.
 - Provide two pieces of evidence for its existence such as homepage/github and news/articles that mentions the application.
2. The need and the benefits of the application.
 - Which problem(s) are addressed? Why are these problem(s) important to be solved?
 - What benefits can be obtained from the application?
3. Identify the scale of the data being used or generated in the application. Your discussion should associate with statistical information rather than general (verbal) estimates only.
4. Identify some key technologies taken place in the application.

Part B – Data processing framework in Big Data

Present your findings of a data processing framework (other than Apache Hadoop and Apache Spark), while addressing the following points

1. General information of the framework
 - Is it available for batch processing, stream processing or both?
 - Which programming language is it built on? Which language(s) does it support?
 - Its compatibility with existing filesystems (e.g., HDFS, Amazon S3, etc.) and schedulers (e.g., YARN). Is it able to be integrated to Hadoop/Spark ecosystem?
2. Present the major components of the framework.
3. Present the typical functionalities of the framework. Compare with Hadoop and Spark.

Your work should be comprehensive, and it should not exceed 6 A4 pages (excluding the cover page and the references)

Figures and tables for demonstration are highly encouraged.

A list of references is mandatory, and so are citations in the main content.

Your work should summarize essential information from various sources. 100% copy/translation is highly prohibited.

Rubric

Requirements	A-1	A-2	A-3	A-4	B-1	B-2	B-3
Score	1	1	2	1	2	1	2