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IBIS, A Framework For the Interoperability Of Bio-repository Information System In Africa

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This solution tackles the challenges of data and information scarcity in the midst of abundance of biological data for research, especially in Africa. It is a rich Enterprise application with several imbued Java technologies in its architecture. It also implements ontology for the smooth integration of abstract knowledge models, and data mining algorithms for real time knowledge discovery and predictive decision making. Microsoft internationalization API will be used to make the system intelligibly adapt to various languages and regions without need for engineering changes. This system provides real time access to bio-specimens stored in isolated bio-repositories scattered all around Africa hereby enhancing collaboration, exchange of data, and aiding researchers in the genomic analysis of the samples as well as identifying new ways of preventing, diagnosing and treating diseases irrespective of their geographic locations.

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Session Classification: Presentation of use cases and their implementation strategies continued