



— LESOTHO —

BIDT3110-DIDT3110 • Digital Strategy for Business Transformation

**Group Assignment
40%**

Faculty	: Information & Communication Technology
Program/class Name	: BSc in Business Information Technology Diploma in Business Information Technology
Semester	: 5
Commence Date	: Week 9
Deadline Date	: Week 14
Marks	: 100

Assignment: Using disruptive technologies – AI, Cybersecurity, and Blockchain to enhance digital solutions in a way that aligns to customers' consumption needs in a digital era.

Task Description

This assignment is a continuation of Test 2 but with a different picture. The task is done in groups where members agree on the best design from the test, and be presented to the lecturer for approval.

Below is an overview of activities to perform:

PART A: SOFTWARE DEVELOPMENT

1. Implement an application and host it on the platform of your choice. [5]



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PART B: BLOCKCHAIN TECHNOLOGY

1. For distributed processing, transparency, and integrity, store data records on a blockchain. [20]

PART C: CYBERSECURITY

1. Classify the data that the application handles into public, private, confidential, and restricted. [8]
2. Configure read and write permissions on how the actors access different modules of the application. The application must have the security configuration module with a different domain. [8+4]
3. Highlight the application compliance levels with GDPR. [5]

Note: 1 and 3 are completed on a spreadsheet

PART D: ARTIFICIAL INTELLIGENCE

1. Considering the objective of the application; either being to increase sales, boost engagement on a streaming service, or enhance content discovery, find datasets relevant to your topic, and build your own dataset. [5]
2. Train an AI model using your dataset to perform analysis and predictions that align the objectives of the application. **Note:** build dashboards [20+15+10]
3. Ensure that you understand accuracy and saturation levels of the selected algorithms. [5]