**Databases Practical Assignment on File System Approach**

**by**

**(Team Name)**

# 1.0 Introduction and Background

Describe the problem you are trying to solve. Why is it important to address such a problem or get such answers? Remember to explain key terms and programming concepts that apply to the problem. What specific programming language did you choose and why? Mention any user requirements

# 2.0 Implementation and Testing

Discuss your solution to the problem. Discuss the structure of your program files. Use pseudocode to explain important methods. Does your program reuse code?

Describe how you tested your solution for correctness. Does the program do what is required? Does the program consider all test cases? Does the program handle errors? Reflect on how well your program works and to what extent it works. Reflect on any programming challenges that you have faced.

# 3.0 Reflections and Discussion

If a new record or column/field “GDP” is added to the file, will your code still work for the same questions? [Explain your answer using appropriate DB terminology]

Mention and discuss three major challenges inherent in the file system approach to data management, and comment on how these challenges can be resolved.

# 4.0 Conclusions

Summarise the main points of your report.

Mention whether the solution is your own work or else give a description of the sources you consulted for assistance and what assistance was provided. All sources should be properly cited in an end-text reference list, and in-text citations should be used whenever possible.

# 5.0 Team Members' Contribution

|  |  |  |  |
| --- | --- | --- | --- |
| **S/N** | **Name and Surname** | **Student Number** | **Key Contribution** |
| 1 |  |  |  |
| 2 |  |  |  |
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# 6.0 References

Enumerate the references used for this practical. Follow the IEEE referencing style

IEEE referencing style: [https://journals.ieeeauthorcenter.ieee.org/wp-content/uploads/sites/7/IEEE\_Reference\_Guide.pdf](https://journals.ieeeauthorcenter.ieee.org/wp-content/uploads/sites/7/IEEE_Reference_Guide.pdf" \t "_blank)

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