

Research Document

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Project Music trivia game

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1 Introduction

2 Research questions

Main question:

What kind of storage solution fits for storing and using large files in a music trivia web-based game?

Sub-questions:

The strategy and methodology for the FHICT can be found at this link:

<https://ictresearchmethods.nl/> Methods and <https://cmdmethods.nl/>.

- 1. Which databases should be considered for a comparison test?**
 - **Strategy:** Library
 - **Methodology:** Literature Study, Community Research
- 2. Which of the chosen databases is easy to implement on the web?**
 - **Strategy:** Field, Library
 - **Methodology:** Document Analysis, Community Research
- 3. What is the storage size of the two chosen databases for the free version?**
 - **Strategy:** Field, Workshop
 - **Methodology:** Document Analysis, Prototyping
- 4. Among the chosen databases, which one offers greater scalability for free?**
 - **Strategy:** Library, Workshop, Showroom
 - **Methodology:** Literature Study, Prototyping, Gap Analysis, Benchmark Test
- 5. How does the performance of the chosen databases compare?**
 - **Strategy:** Library Workshop Showroom
 - **Methodology:** Literature Study, Prototyping, Gap Analysis, Benchmark Test

3 Sub-questions result

3.1 Which databases should be considered for a comparison test?

I need to decide which databases to compare for this project due to time constraints. The ideal criteria for selecting databases to compare include:

- The database must be popular.
- The database must have a free version available.
- The databases must be of different types from each other.
- The database must have a cloud-based option.

Additionally, I'll limit the maximum number of comparisons to three.

3.1.1 Types of databases

I'm going to write down all the databases type that I found and summarize them and decide which types of databases to do a comparison test based on this project.

- **Centralized database**
- **Cloud database**
- **Commercial database**
- **Distributed database**
- **End-user database**
- **Graph database**
- **NoSQL database**
- **Object-oriented database**
- **Open-source database**
- **Operational database**

- **Personal database**
- **Relational database**

3.2 Which of the chosen databases is easy to implement on the web?

3.3 What is the storage size of the two chosen databases for the free version?

3.4 Among the chosen databases, which one offers greater scalability for free?

3.5 How does the performance of the chosen databases compare?

4 Conclusion to the main question