

Database Technologies Research

Factors to consider:

- Scalability
- Performance
- Cost
- Learning curve
- Nature of data

PostgreSQL

- Pros:
 - High performance and very reliable
 - Supports advanced data types which can be used in our ticket system
 - Can handle complex queries and joins
 - Indexing makes it fast
- Cons
 - Resource Intensive
 - Performance overhead

MongoDB

- Pros
 - Allows for easy queries using json format
- Cons
 - NoSQL

FirebaseDB

- Pros
 - Fast look up
 - Flexible data
 - Hosted by google so easy and cheap
 - Comes with other features such as authentication, messaging, analytics etc.
- Cons
 - NoSQL, so we can't perform complex queries
 - Can get expensive if we exceed the quota

SQL

- Pros
 - Easy learning curve, we are all familiar with it
 - Powerful queries and joins allowing complex data management and retrieval
 - ACID Compliance
 - Cheap and easy to host
- Cons
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