MongoDB

Emergency Room App

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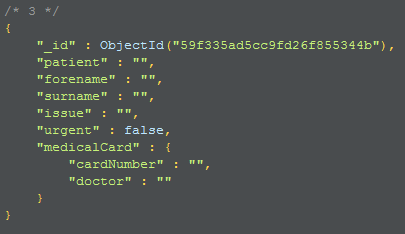
##### INTRO TO mongoDB

INTRO

MongoDB is an easy to use document based database with emphasis on the ability to scale horizontally. In the CAP theorem it has data consistency and partition tolerance. One of the core ideas behind MongoDB is the ability to access data quickly and reliably. MongoDB achieves this with the use of sharding and replica sets. For this project I have chosen to do an application based on the waiting room of a hospital. The software will demonstrate CRUD operations through the manipulation of a patient’s information.

JSON

For the sake of this project I have modelled my JSON object based on essential patient details. This looks like the following.



Patient – The patients ID

Forename & Surname – Name of the patient in question

Issue – The reason the patient is in the emergency room

Urgent – Boolean field denoting whether the patient is in urgent need of attention or not

MedicalCard – A nested JSON object holding fields related to a medical card

CardNumber – The ID of the medical card if available

Doctor – The name of the doctor labelled on the medical card

WHY IM USING mongoDB

I have chosen to use MongoDB for this project as when dealing with patients in a hospital, large volumes of data needs to be gathered and stored. MongoDB specialises in the controlling of a large dataset. This project is not a big data project, but all the elements of MongoDB explored here would carry over into a big data project.

##### CRUD Using Postman

Create

READ

UPDATE

DELETE

##### **CRUD USING Java driver**

INTRO TO Java Driver

WHY I CHOSE the java driver

CREATE

READ

UPDATE

DELETE

**ADVANTAGES**

**DISADVANTAGES**

##### **CONCLUSION**

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