

# mongoDB

## GUIDED BY:

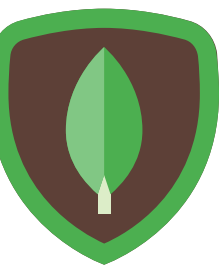
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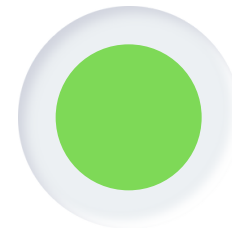
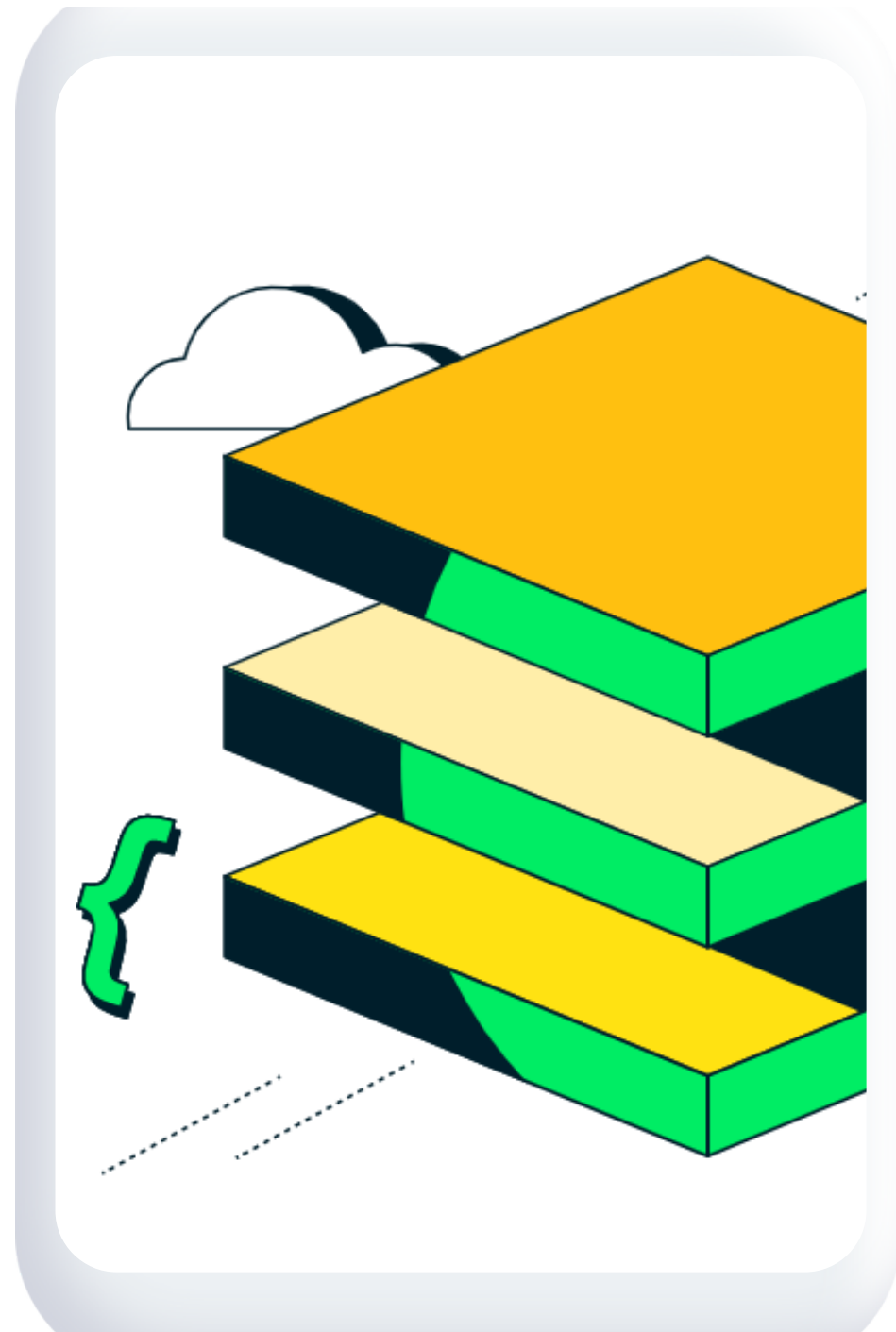
# What is **MONGODB**



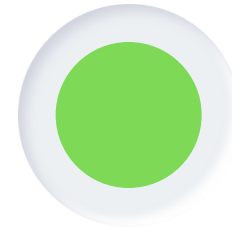
- It is a document oriented open source (NoSQL) database.
- NoSQL databases are more scalable and provide superior performance.
- Stores information in form of documents.
- Uses BSON ('Binary JSON') to query database.
- Easily mapable to modern object oriented languages.
- Scalable High-Performance database built for speed.



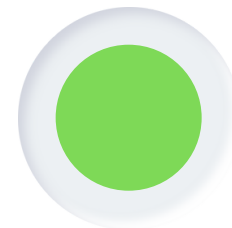
# Why we use MongoDB?



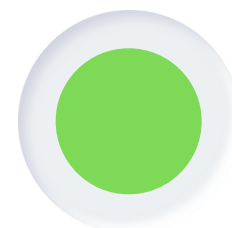
**Flexible document schemas**



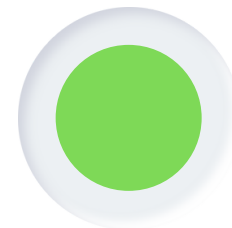
**Code-native data access**



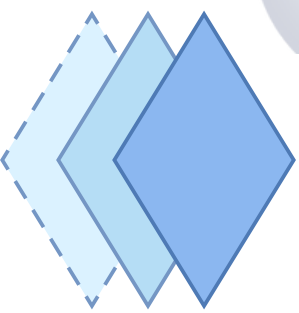
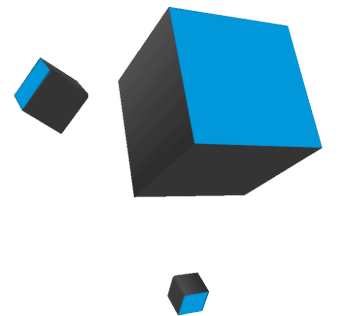
**Change-friendly design**



**Powerful querying and analytics**

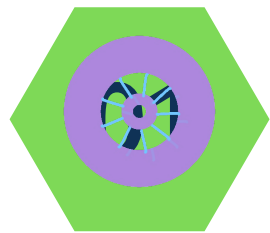


**Easy horizontal scale-out**

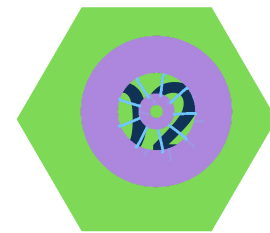


# Architecture of MongoDB

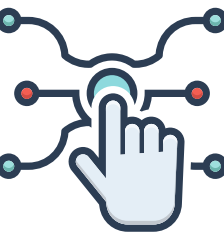
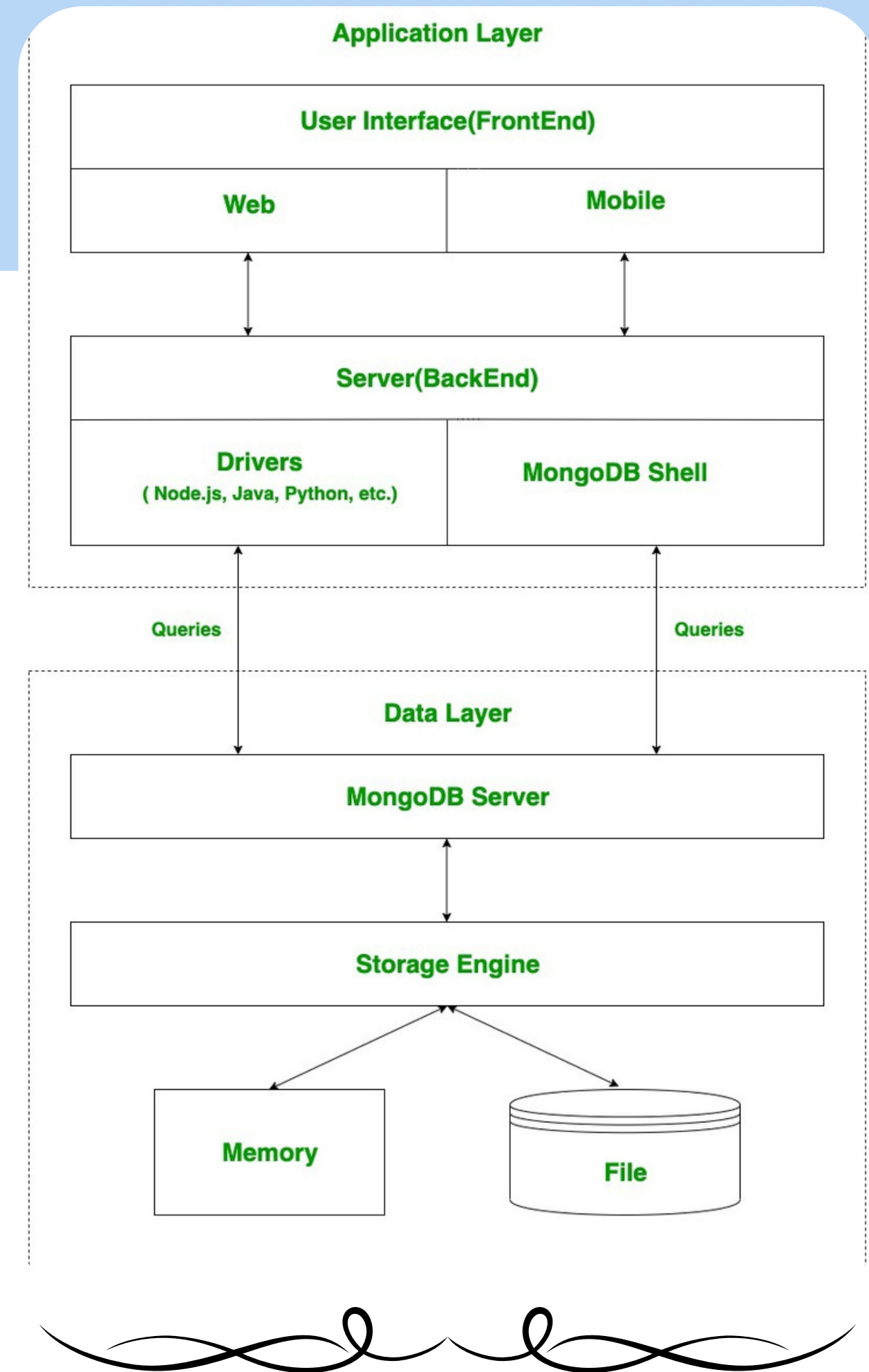
- MongoDB work in two layers –



- Application Layer









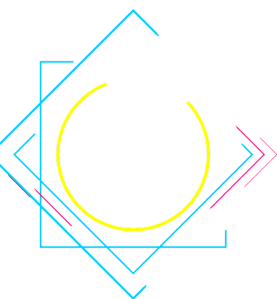
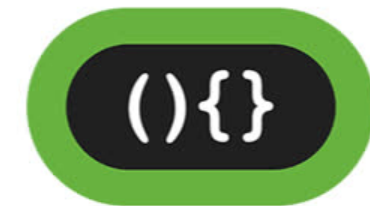
- Data layer

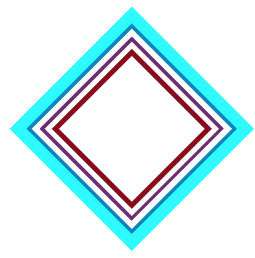


# The Power of Document-Oriented Database



-  It is a natural form to store data.
-  It is human-readable.
-  Structured and unstructured information can be stored in the same document.
-  You can nest JSON to store complex data objects.
-  JSON has a flexible and dynamic schema
-  Documents map to objects in most popular programming languages.

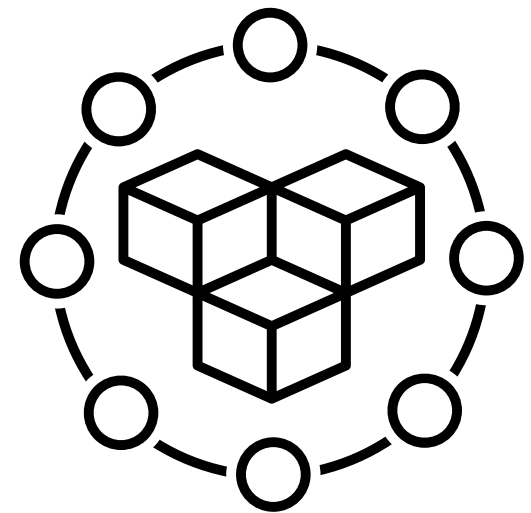




# Features

- Ad-hoc queries
- Indexing
- High Performance
- Document Oriented

- Replication and stability
- Sharding
- Load balancing
- Aggregation



## Want to Build

- *Photographic application (like google photos)*
- Having Email sharing service.
- Security features of your data.

## Tech Tools

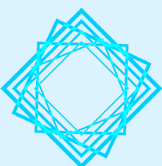
- MongoDB Atlas
  - Mongo Compass
  - Send in Blue
  - Heroku

## End Users

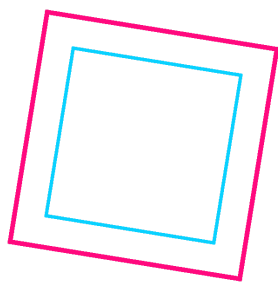
- Tourist
- Photographers
- Students

## Prerequisite

- HTML
- CSS
- Server side Javascript
- Middlewares







## Benefits

- *User can share pictures in any format easily*
- Also you can store your pictures in database
- Data will be end to end encrypted

## Technology Used

- Node Javascript
  - Express
    - Vanilla Javascript
    - Node mailer

## Proposed Solutions

- User Friendly Interface
- Fast Access to Database
  - *Look and Feel Interface*
    - More secure way to store images

## Functional Requirements

- *User can upload pics in cloud database*
- *Another user can download pics from database*







*Thank You!*