



BLACKBUCK
ENGINEERS



The MERN Development Lab

Session 20 - MongoDB Fundamentals

BY AQUIB AJANI



BLACKBUCK
ENGINEERS



GitHub
Repository

[tabdeelstudios/blackbucks-iidt-internship-full-stack-feb-2024](https://github.com/tabdeelstudios/blackbucks-iidt-internship-full-stack-feb-2024)

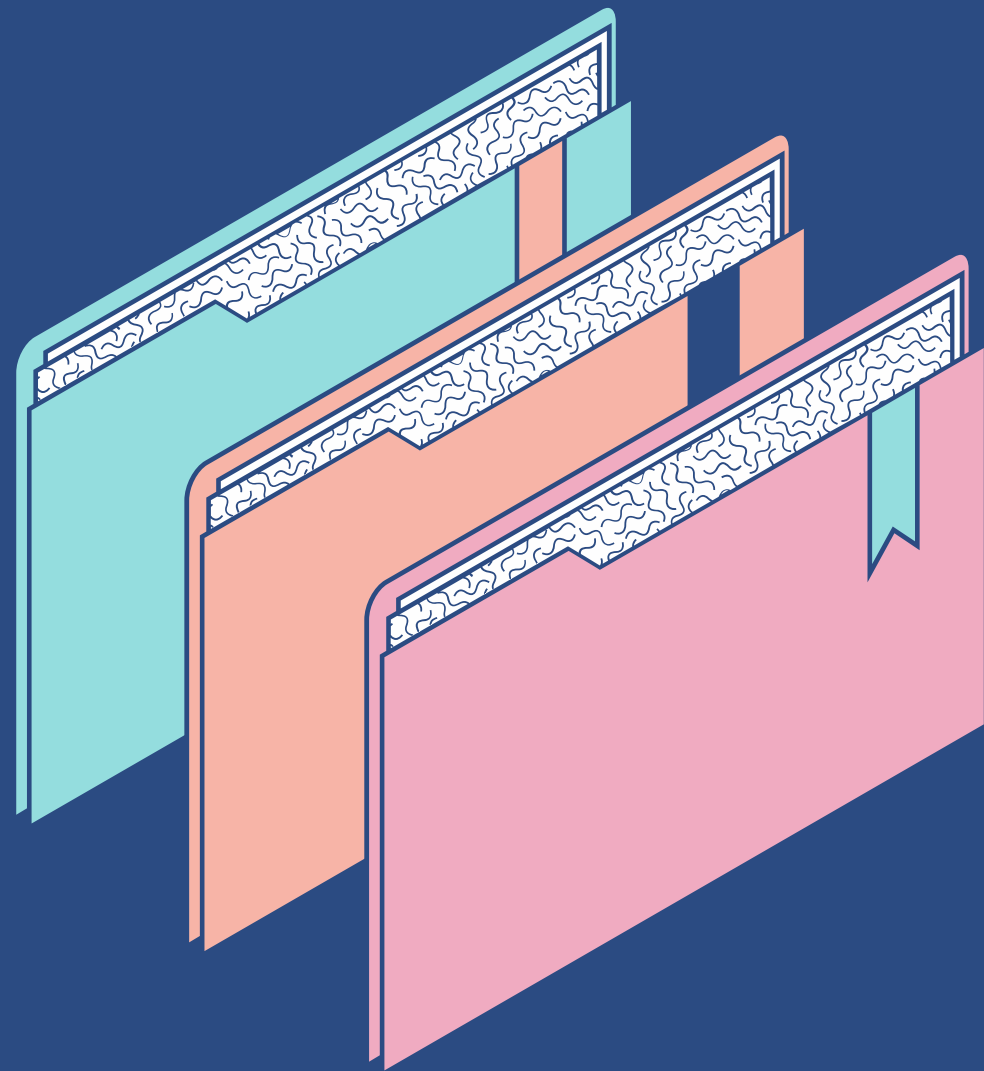
<https://github.com/tabdeelstudios/blackbucks-iidt-internship-full-stack-feb-2024>

Application Programming Interface



HTTP Methods





Session Agenda

MONGODB FUNDAMENTALS

- What is MongoDB?
- Setting up a MongoDB Cluster
- Creating Schemas and Models
- Connecting MongoDB with ExpressJS
- MongoDB Express CRUD

What is MongoDB?



Setting up a MongoDB Cluster

AQUIB'S ORG - 2019-09-03 > ZERODHA CLONE

Database Deployments

Find a database deployment...

Edit Config

+ Create

ZerodhaCloneCluster

Connect

View Monitoring

Browse Collections

...

FREE

SHARED

Enhance Your Experience

For production throughput and richer metrics, upgrade to a dedicated cluster now!

Upgrade

R 0

W 0

Last 6 hours

100.0/s

Connections 0

Last 6 hours

100.0

In 0.0 B/s

Out 0.0 B/s

Last 6 hours

100.0 B/s

Data Size

78.0 KB / 512.0 MB (0%)

Last 15 days

512.0 MB

VERSION	REGION	CLUSTER TIER	TYPE	BACKUPS	LINKED APP SERVICES	ATLAS SQL	ATLAS SEARCH
7.0.7	AWS / Mumbai (ap-south-1)	M0 Sandbox (General)	Replica Set - 3 nodes	Inactive	None Linked	Connect	Create Index

+ Add Tag

Creating Schemas and Models

```
const { model } = require("mongoose");

const { OrdersSchema } = require("../schemas/OrdersSchema");

const OrdersModel = new model("order", OrdersSchema);

module.exports = { OrdersModel };
```

```
const { Schema } = require("mongoose");

const OrdersSchema = new Schema({
  name: String,
  qty: Number,
  price: Number,
  mode: String,
});

module.exports = { OrdersSchema };
```

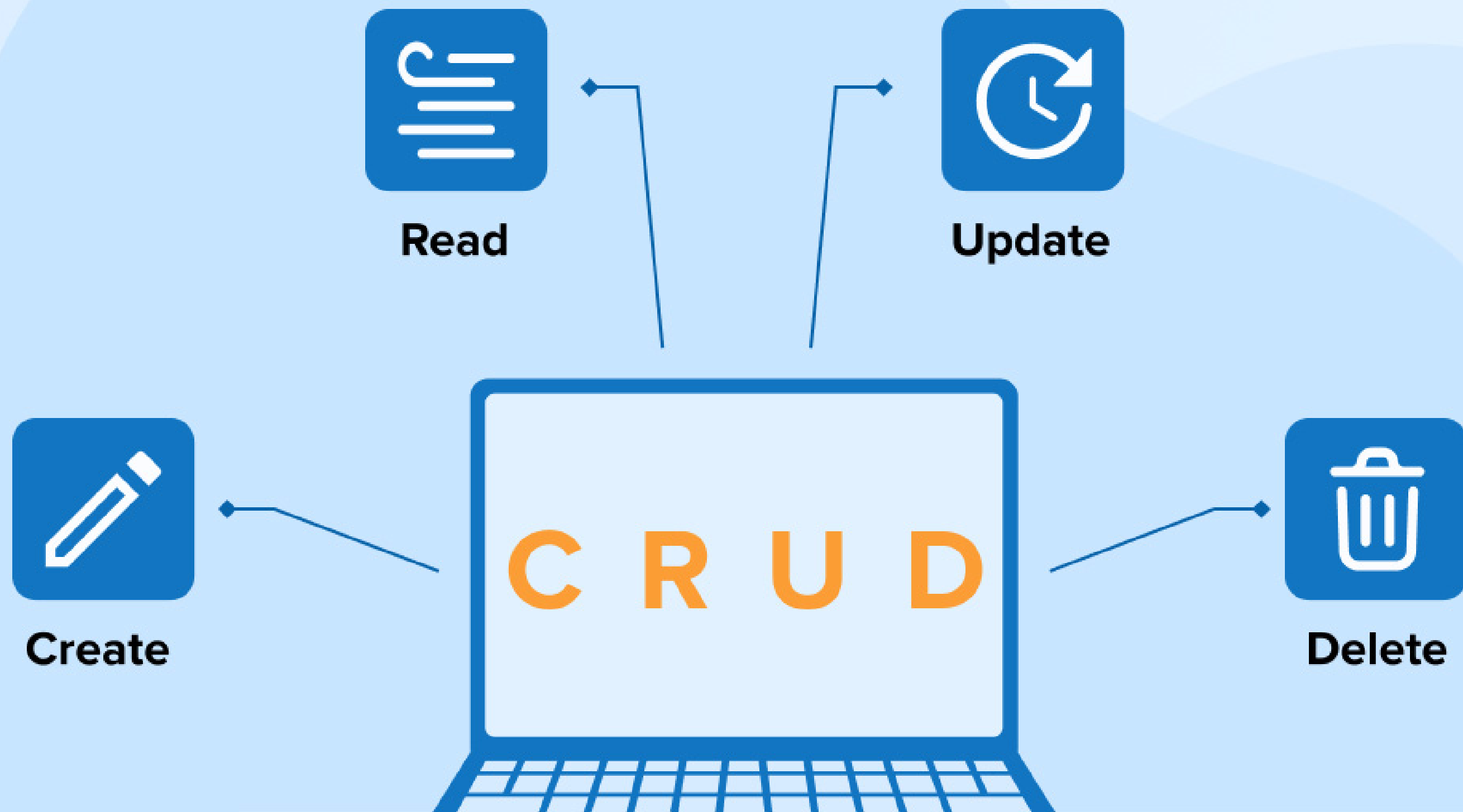

Connecting MongoDB with ExpressJS

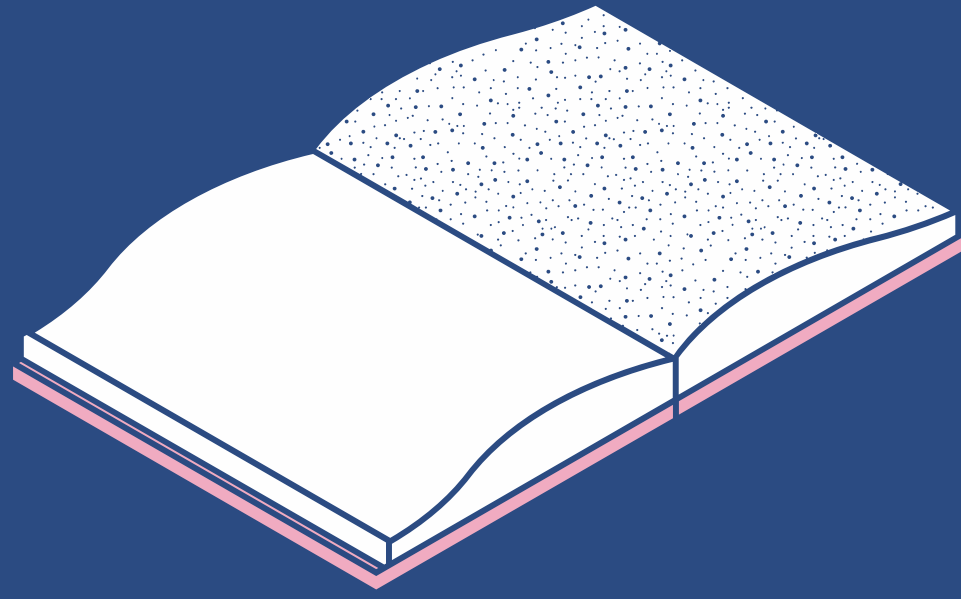


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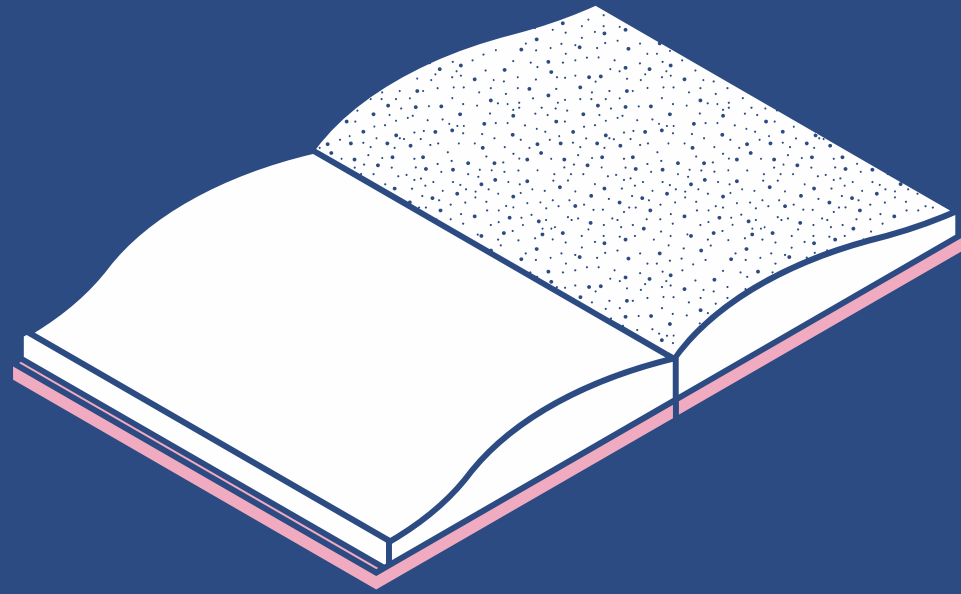
MongoDB Express CRUD





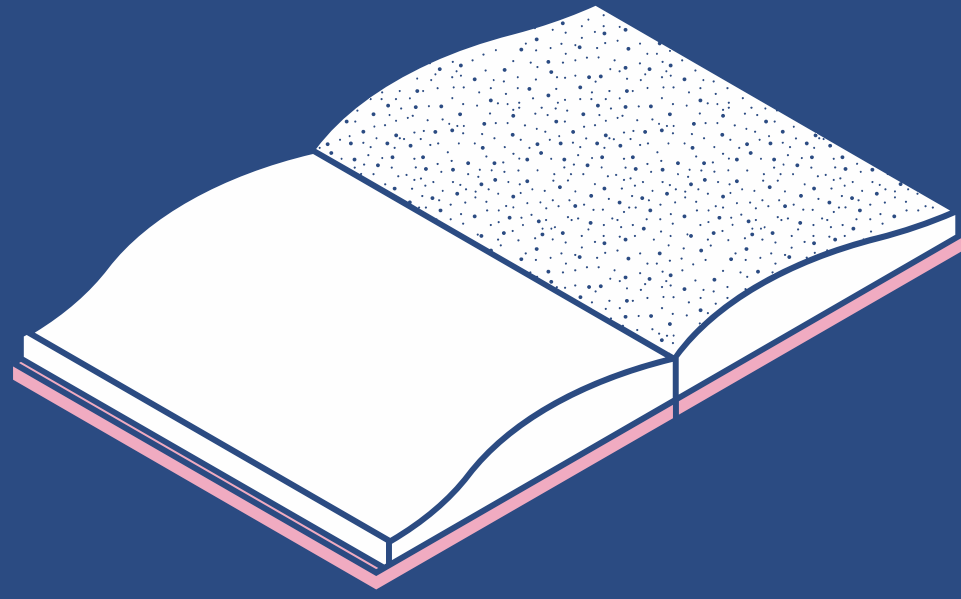
What is MongoDB?

1. A relational database management system
2. A NoSQL database management system
3. A programming language
4. A cloud computing platform



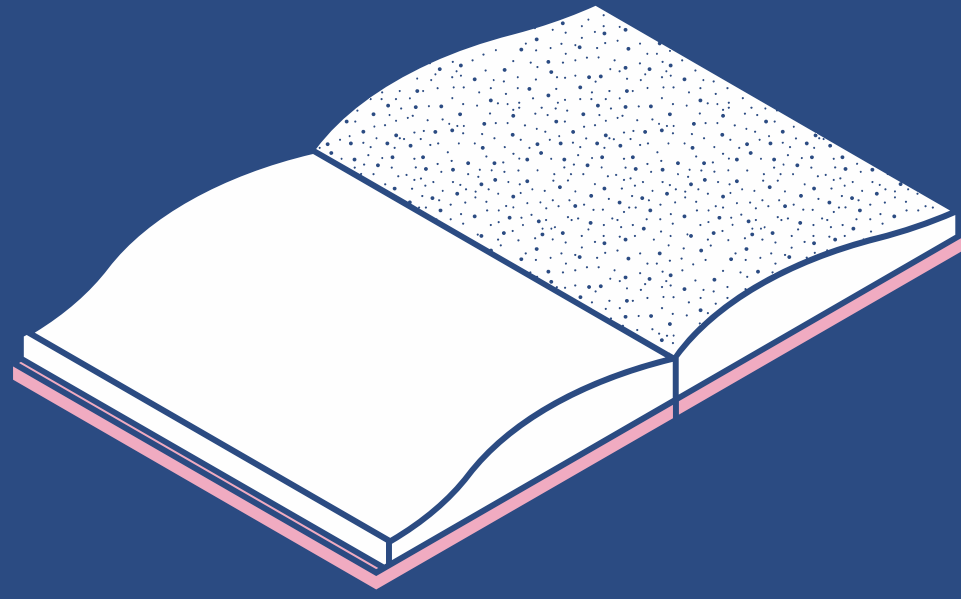
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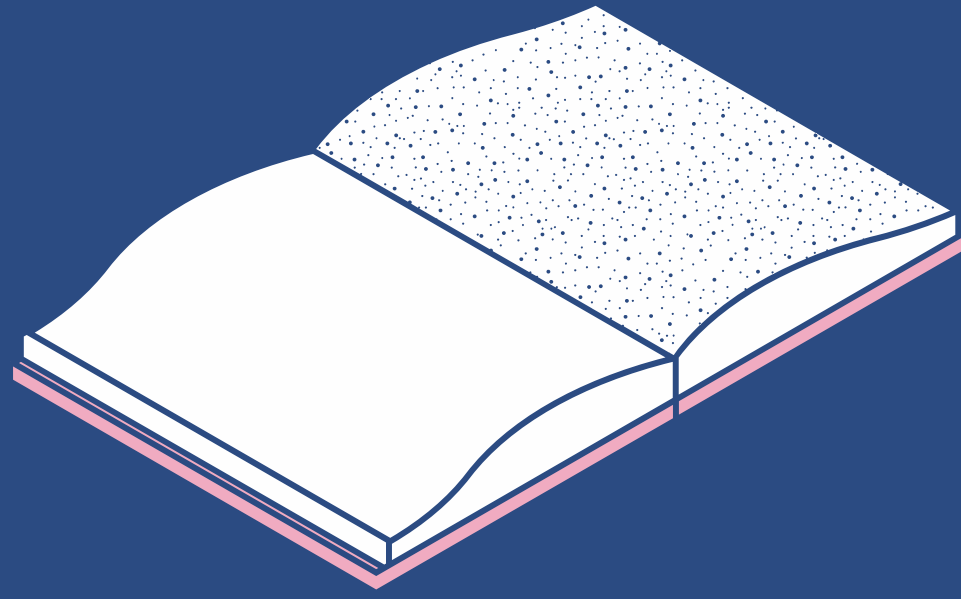
Which of the following is true about Mongoose schemas?

1. They enforce the structure of documents in MongoDB
2. They are not mandatory when working with MongoDB
3. They are only used for indexing purposes
4. They are interchangeable with MongoDB collections



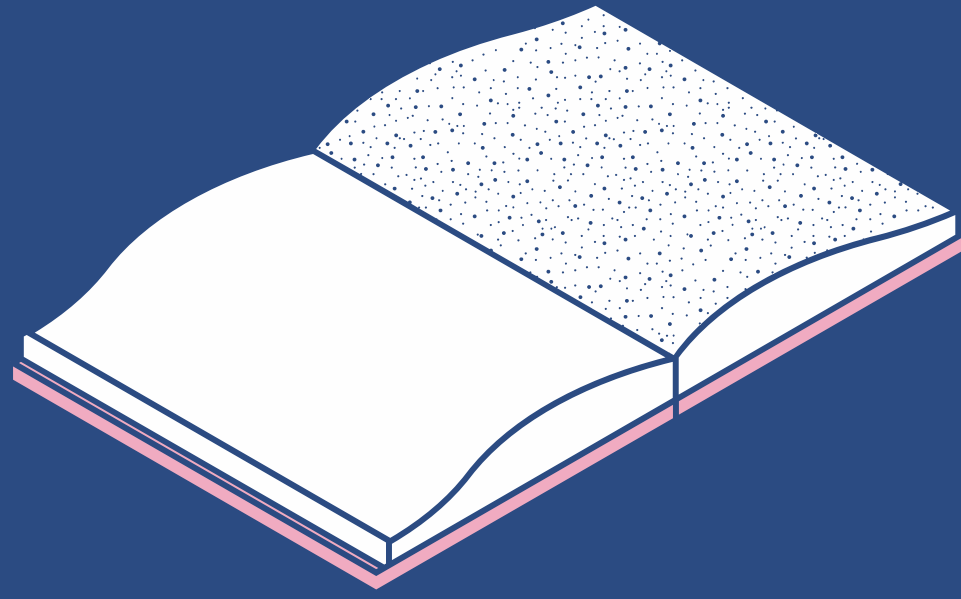
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How can you insert a document into MongoDB using Mongoose?

1. By directly manipulating the MongoDB database
2. By using the `insert()` method on a Mongoose model instance
3. By using the `insertOne()` method on the Mongoose model
4. By using the `save()` method on a Mongoose model instance



How can you insert a document into MongoDB using Mongoose?

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