IntelliPaat IntelliPaat



y WateMiDaat

\_Zntell

\_\_intelliPaat

NodeJS

**Intelli**Poot

\_/ntelliPaat

**Intelli**Paat

**Intelli**Paat

**Intelli**Paat

. IntelliPaat



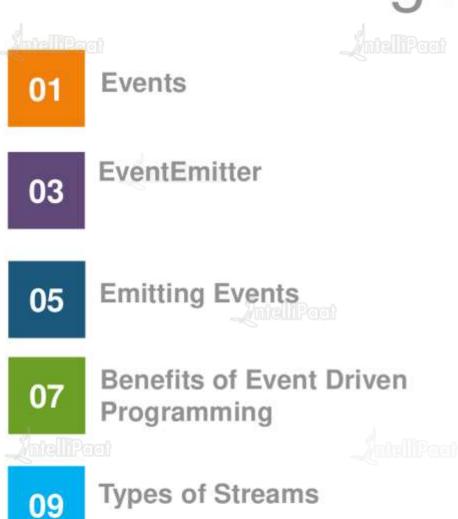


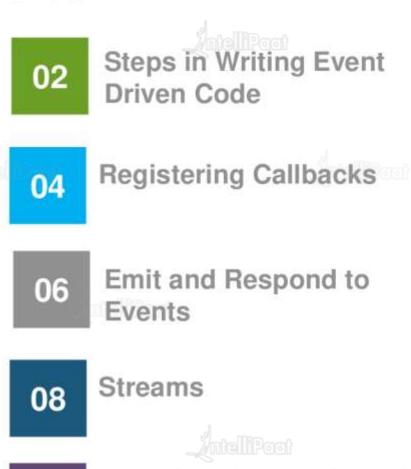






## Agenda









## Agenda

Write Data to a file using streams

12

Stream Events



**Process Stream Events** 

**I**ntelliPoot

\_intelliPaat

**Intelli**Paat

**Intelli**Paa

Copyright Intellipaat. All rights reserved.



**I**ntelliPaat

\_/ntelliPaat

**Intelli**Poot

**I**ntelliPaat

**IntelliPaat** 

**Intelli**Paat

Intell

Paat

**I**ntelliPaat

IntelliPaat

## MongoDB

intelliPaat

IntelliPaat

IntelliPaat

**L**IntelliPaa

.../ntelliPaat

IntelliPaat

./ntelliPaat

\_intell



IntelliPaat

\_/ntelliPaat

IntelliPaat

IntelliPaat

/ntelliPaat

\_Zntel

Paat

AntelliPaat

**I**ntelliPaat

IntelliPaat

## What is MongoDB?

\_i/ntelliPaat

\_/ntelliPaat

/ IntelliPaat

**J**ntelliPaa

. IntelliPaat

. IntelliPaat / IntelliPaat

<u>Intell</u>

### What is ExpressJS?



MongoDB is Document Oriented, NoSql database management system

Since MongoDB is a NoSql Database, you do not need to provide a schema and can insert data of any shape in a document





**I**ntelliPaat

\_/ntelliPaat

IntelliPoat

**Intelli**Paat

IntelliPaat

**/**ntelliPaat

Paat

*i*ntelliPaat

**I**ntelliPaat

**IntelliPaat** 

## Why MongoDB?

**I**ntelliPaat

/ntelliPaat

\_//ntelliPaai

intelliPaat

/ IntelliPaat / IntelliPaat \_intell



**IntelliPaat** 

#### MongoDB provides several benefits

Fast

**Flexible** 

No Joins

Ease of Use

Scalable

MongoDB provides high speed reads and writes to collections and documents





**IntelliPaat** 

#### MongoDB provides several benefits

Fast

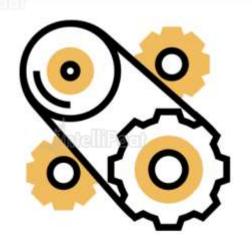
**Flexible** 

No Joins

Ease of Use

Scalable

Since MongoDB is Schema Less it provides you with the flexibility of inserting a record with any shape





**IntelliPaat** 

#### MongoDB provides several benefits

Fast

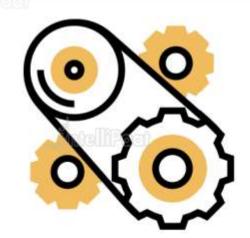
**Flexible** 

No Joins

Ease of Use

Scalable

In MongoDB we can nest collections so we don't have to perform complex join queries to get results





**IntelliPaat** 

#### MongoDB provides several benefits

Fast

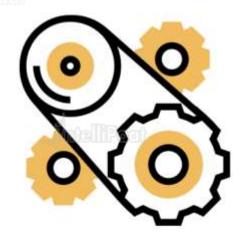
**Flexible** 

No Joins

Ease of Use

Scalable

MongoDB uses query language that is similar to JavaScript and is very easy to understand and use





yntelliPaat

#### MongoDB provides several benefits

Fast

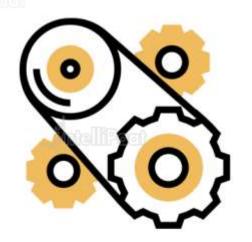
**Flexible** 

No Joins

Ease of Use

Scalable

MongoDB is very easy to scale horizontally i.e. distributing data across a cluster of large number of server





**IntelliPaat** 

**IntelliPaat** 

**I**ntelliPaat

\_/ntelliPaat

IntelliPaat

, IntelliPaat **Intelli**Poot

### Document

/ntelliPaat

/ntelliPaat

/ntelliPaat

**I**ntelliPaa

.../ntelliPaat

/ntelliPaat

/ IntelliPaat

<u> I</u>ntell



#### A Document in MongoDB is a record inside a collection

Data is Stored inside these documents in a JSON like format called BSON or Binary JavaScript Object Notation





**IntelliPaat** 

**IntelliPaat** 

**Intelli**Poot

**Intelli**Post

**Intelli**Paat

liPaat

IntelliPaat

IntelliPaat

**Intelli**Paat

### Collections

IntelliPaat

IntelliPaat

/ntelliPaat

**I**ntelliPaa

. IntelliPaat /ntelliPoat

/ntelliPaat

\_intelli

#### Collections



In MongoDB Database data is stored in documents and these documents are grouped inside a collection

You can think of a document as a row and a collection as a table in an SQL database



















































IntelliPaat

MongoDB supports all the data types that JSON supports with some additional data types, some of them are:

Integer

Double

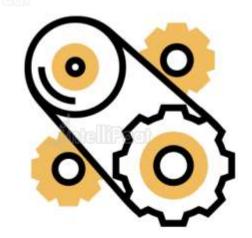
**Timestamp** 

**Binary data** 

Object ID

Null

Integers are used to store whole number, depending on your server these can be 32 bit or 64 bit





**IntelliPaat** 

MongoDB supports all the data types that JSON supports with some additional data types, such as:

Integer

Double

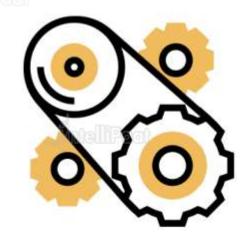
**Timestamp** 

Binary data

Object ID

Null

Doubles are used to store a floating point number





**IntelliPaat** 

MongoDB supports all the data types that JSON supports with some additional data types, such as:

Integer

Double

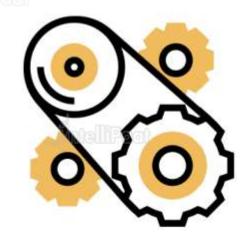
**Timestamp** 

Binary data

Object ID

Null

Timestamps are used to record when a document has been created or modified





**IntelliPaat** 

MongoDB supports all the data types that JSON supports with some additional data types, such as:

Integer

Double

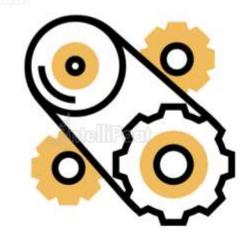
**Timestamp** 

Binary data

Object ID

Null

This is used to store binary data, such as images etc





IntelliPaat

MongoDB supports all the data types that JSON supports with some additional data types, such as:

Integer

Double

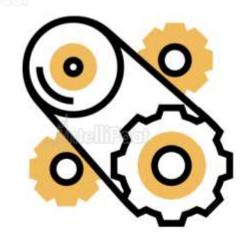
**Timestamp** 

Binary data

Object ID

Null

Object ID is a special type which is used to store the unique id of document





**IntelliPaat** 

MongoDB supports all the data types that JSON supports with some additional data types, such as:

Integer

Double

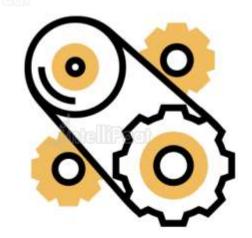
**Timestamp** 

Binary data

Object ID

Null

Null is data type which used to represent the absence of data









Using MongoDB with ExpressJS

### **Using MongoDB with ExpressJS**



As ExpressJS is not opinionated, you can use MongoDB database with an quite easily

To use MongoDB with Express or any NodeJS application you can use one of many npm packages. Two of the most popular are the native MongoDB driver and the Mongoose package













IntelliPaat

**I**ntelliPaat

Intell









## Native MongoDB Driver

**IntelliPaat** 





















### **Native MongoDB Driver**



The Native MongoDB driver is an NPM package that allows you to directly interact with your MongoDB server

It is created by the MongoDB team to allow applications to interact with the MongoDB server, very much like using the Mongo Shell











































**IntelliPaat** 

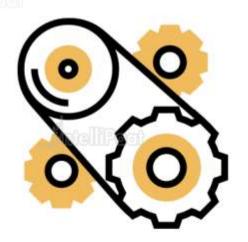
There are several benefits in using Native MongoDB Driver

Fast

Easy

No Schema

As it is a very thin abstraction, it provides really good performance





**IntelliPaat** 

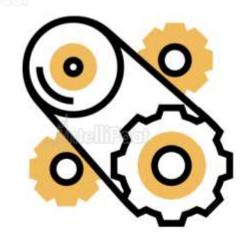
There are several benefits in using Native MongoDB Driver

Fast

Easy

No Schema

Using native driver is very easy as it make use of the same syntax that is used in the mongo shell





**IntelliPaat** 

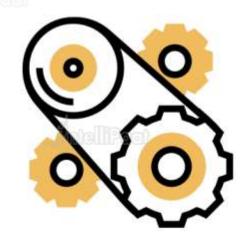
There are several benefits in using Native MongoDB Driver

Fast

Easy

No Schema

You can issue queries without using defining schema for your collections and documents





**IntelliPoot** 

**IntelliPaat** 

**I**ntelliPaat

IntelliPaat

**Intelli**Paat

**Intelli**Paat

liPaat

**I**ntelliPaat

IntelliPaat

\_intelliPaat

Mongoose

/ntelliPaat

\_/ntelli

IntelliPaat

/ IntelliPaat

Copyright Intellipaat. All rights reserved.



The Mongoose package is an ODM (Object Data Mapper)

It allows you to define schemas and models and instead of interacting with the database directly, you can just interact with the model instances and mongoose will issue the queries





IntelliPaat

IntelliPaat

IntelliPaat

**Intelli**Paat

*I*ntelliPaat

**Intelli**Paat

Intell

Paat

**I**ntelliPaat

IntelliPaat

IntelliPaat

# Why use Mongoose?

**IntelliPoat** 

alliDaat

. IntelliPaat

\_intell

### Why use Mongoose?



**IntelliPaat** 

There are several benefits in using Native MongoDB Driver

Speed

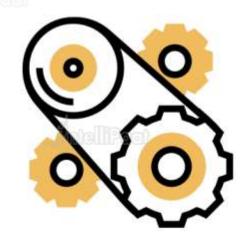
**Schemas** 

Validation

Utilities

**Reduced Effort** 

Even with all the additional benefits mongoose still provides very good data access speed



### Why use Mongoose?



IntelliPaat

There are several benefits in using Native MongoDB Driver

Speed

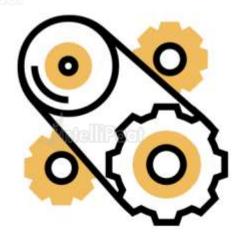
**Schemas** 

Validation

Utilities

**Reduced Effort** 

You can enforce strict schema validations to keep your data in a normalized state



## Why use Mongoose?



yntelliPaat

There are several benefits in using Native MongoDB Driver

Speed

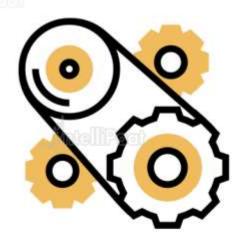
**Schemas** 

Validation

Utilities

**Reduced Effort** 

Mongoose takes validation of rules defined in schema definitions



## Why use Mongoose?



**IntelliPaat** 

There are several benefits in using Native MongoDB Driver

Speed

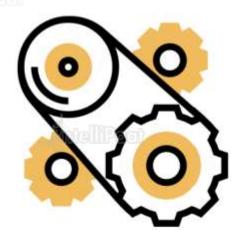
**Schemas** 

Validation

Utilities

**Reduced Effort** 

Mongoose has several built in methods that allow you to run custom code on successful query execution



## Why use Mongoose?



**IntelliPaat** 

There are several benefits in using Native MongoDB Driver

Speed

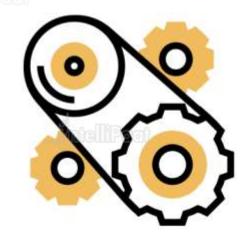
Schemas

Validation

Utilities

**Reduced Effort** 

Mongoose greatly reduces the time it takes developer to build applications





Quiz

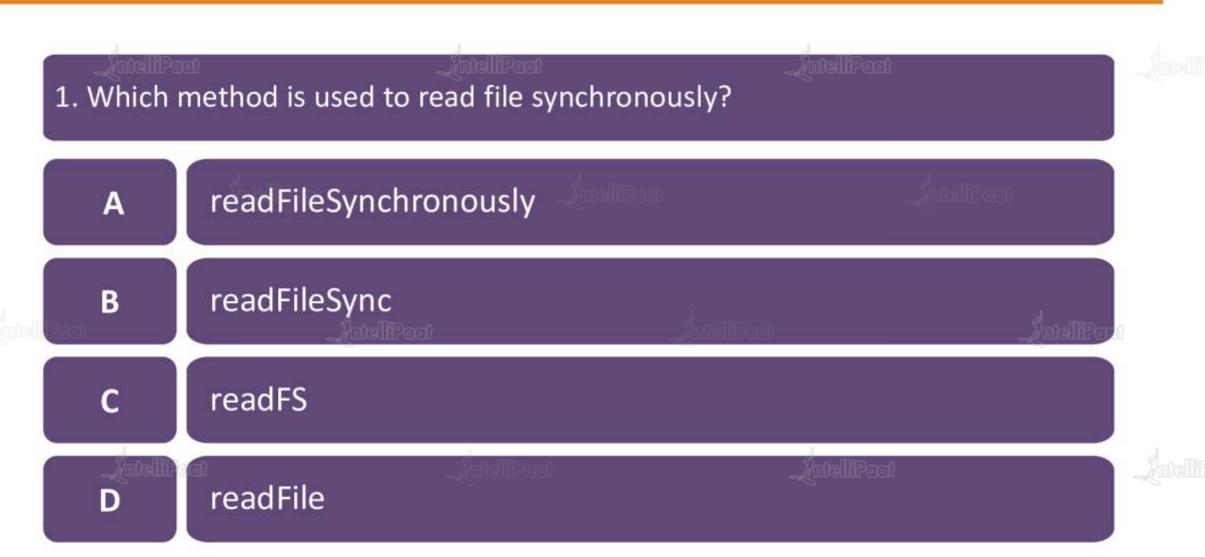
Copyright Intellipaat. All rights reserved.









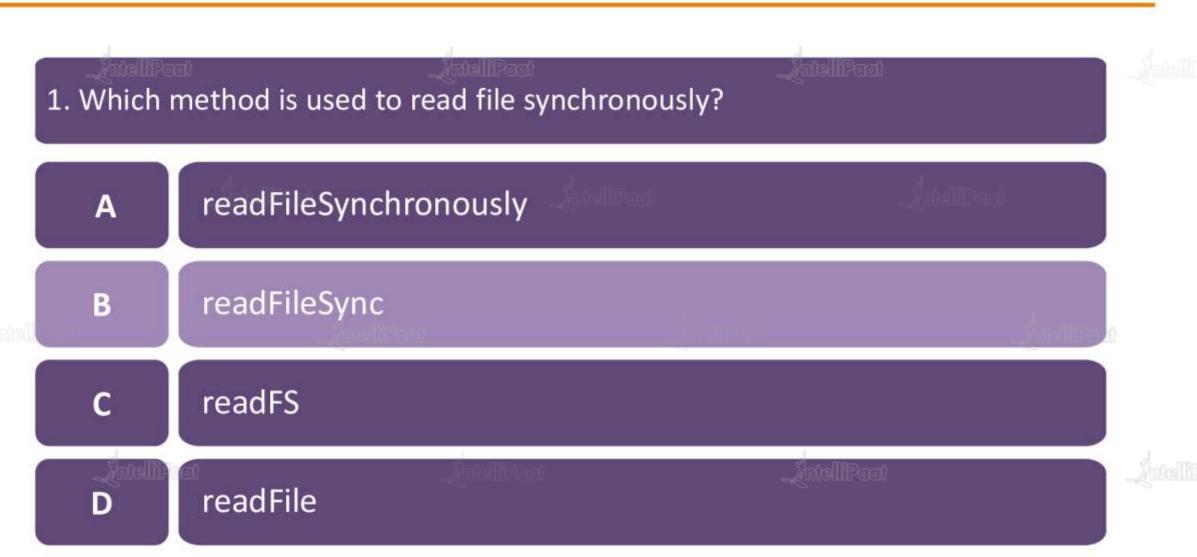










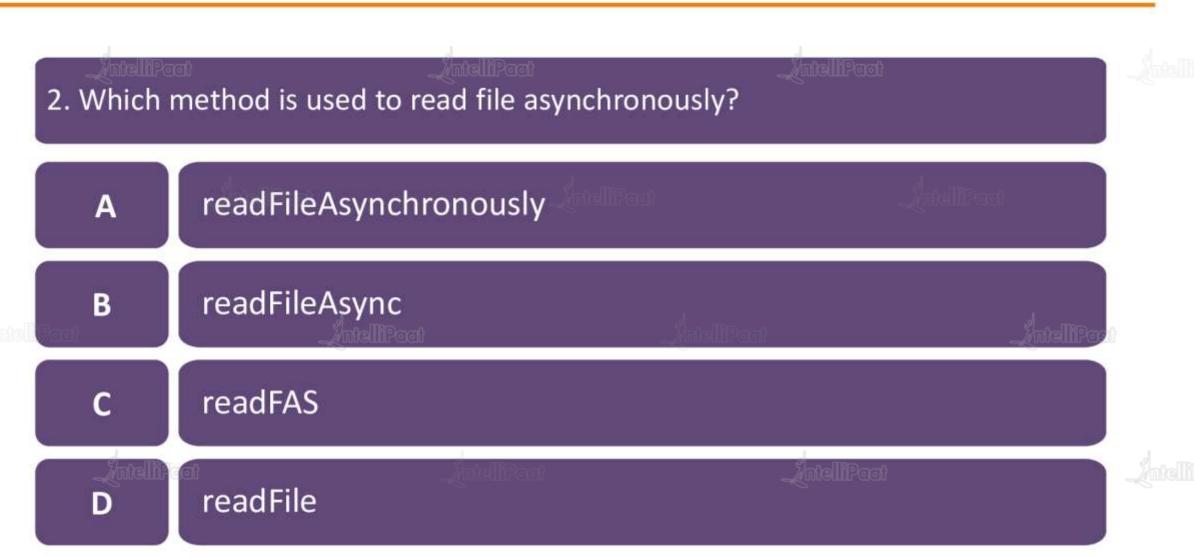










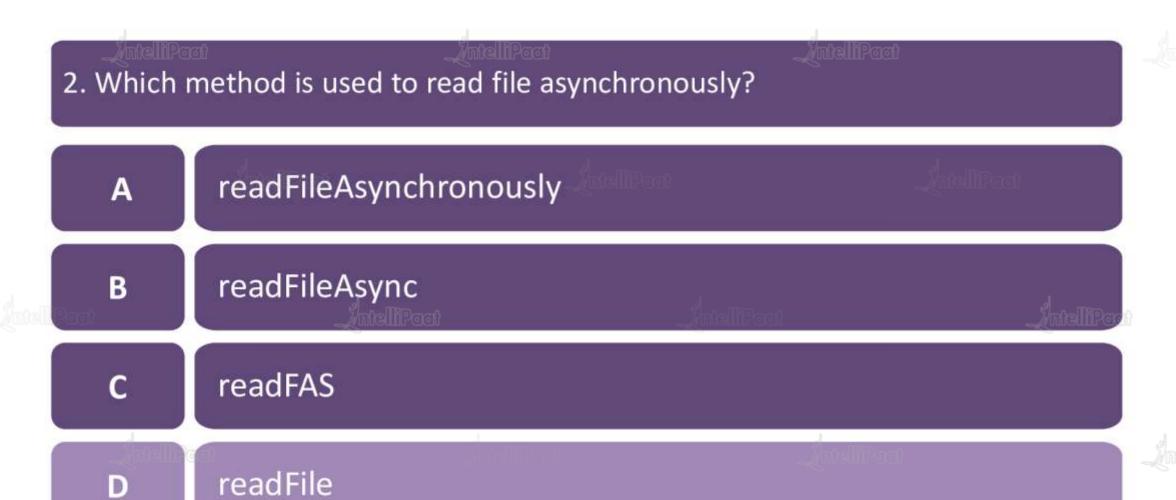


















3. Which constant is NodeJS is used to refer to absolute path of the current file?

**A** \_\_filename

**B** dirname

**C** \_\_absoule\_file\_path

**D** \_\_abs\_filename









3. Which constant is NodeJS is used to refer to absolute path of the current file?

filename

**B** dirname

**C** \_\_absoule\_file\_path

**D** \_\_abs\_filename









4. Which constant is NodeJS is used to refer to absolute path of the current directory?

A \_\_filename

**B** dirname

**C** \_\_absoule\_dir\_path

**D** \_\_abs\_directory







4. Which constant is NodeJS is used to refer to absolute path of the current directory?

A \_\_filename

**B** \_\_dirname

**C** \_\_absoule\_dir\_path

**D** \_\_abs\_directory









5. Which property of the filestats object can be used to determine the time the file was last accessed?

A access\_timestamp

**B** birthname

**C** atime

**D** uid







5. Which property of the filestats object can be used to determine the time the file was last accessed?

A access\_timestamp

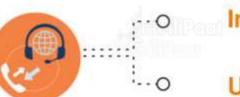
**B** birthname

**C** atime

**D** uid









US: 1-800-216-8930 (TOLL FREE)



support@intellipaat.com



24/7 Chat with Our Course Advisor