

Date: 13/10/2025

## Task 10: CRUD operations in Document Databases

Aim: To perform CRUD operations

mongoose on mongoDB document database

→ node is installed

→ mongo DB installed locally or use mongoDB Atlas

At 198

→ NPM Packages

Steps: ~~Initialize~~ a node js project

~~mongoose - crud~~

~~cd mongoose-crud~~

npm init -y

npm install mongoose

Step-2: connect to mongoDB

const mongoose = require('mongoose');

~~mongoose.connect('mongodb://127.0.0.1:27017/StudentDB?')~~

use new ur presence = true

use use read property = true y)

\* then() => console.log('mongoDB connect successfully')

\* After that => console.log('done')



STEP-3: Create a Schema of Model:

const student schema = new mongoose

Schema - {

name: String;

age: Number;

course: String;

grade: String;

},

const student = mongoose.model('Student', studentSchema);

STEP-4: Perform CRUD

create function create student()

const student = new Student({

name: 'Vijay',

age: 21

course: 'Computer Science',

grade: 'A'

const result = await student.save();

console.log('Student created: ' + result);

async function get students()

{

const students = await student.find({});

console.log('All students: ' + students);

}

const students = await student.find({});



Update doc:

```
async function updateStudent(id) {  
  const student = await student.findById(  
    id and update {
```

```
  { grade: 'A' }
```

```
  { new: true }
```

```
  }  
}
```

```
console.log('Update student: ' + student);
```

Deletes

```
async function deleteStudent(id) {  
  const result = await student.findById(  
    id and delete(id);
```

```
  console.log('Deleted student: ' + result);  
  node app.js
```

Outputs

~~Student created: {~~

~~- id = 0524746162E9956D079D1274~~

name = Vinay Tej A

age = 21

course = 'computer science'

grade = 'A'

- v = 0

}



All student: {  
 { id -- name: age: 21: course:  
 'computer science grade: 'A' }  
 }

update student: { -- }  
 Delete student: { -- }

VELTECH	
EX No.	
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	16
SIGN WITH DATE	

13/10/23

VEL TECH	
EX No.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCE (5)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

Result The implemented of CRUD  
 operations like creating is sorting  
 finding and memory operation  
 using mongoDB. is executed  
 successfully.