

# ***BURSA TEKNİK ÜNİVERSİTESİ***

**Mühendislik ve Doğa Bilimleri Fakültesi – Bilgisayar  
Mühendisliği Bölümü**



**BLM0470 NodeJS İle Web Programlama**

**2023-2024 Bahar Dönemi**

## **12.Hafta Raporu**

**Berkan SERBES – 22360859353**

## İçindekiler

1.Görev Yönetim Uygulaması Geliştirme .....	3
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Not: Bu rapor sadece kodların ekran görüntülerini içermektedir. Kodlara dair herhangi bir açıklama yazılmamıştır.

## 1.Görev Yönetim Uygulaması Geliştirme

```
package.json X
package.json > ...
1 {
2   "name": "hafta12_raporkodlari",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1"
8   },
9   "keywords": [],
10  "author": "",
11  "license": "ISC"
12 }
13
```

PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERMINAL

Wrote to C:\Users\berka\OneDrive\Masaüstü\CENG File\BTU Ders Dosyaları\2023-2024 Bahar Dönemi\BL\0470 - NodeJS ile Web Programlama\Projects\RaporKodlari\Hafta12\_RaporKodlari\package.json:

```
{
  "name": "hafta12_raporkodlari",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}
```

```
package.json X
package.json > ...
1 {
2   "name": "hafta12_raporkodlari",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1"
8   },
9   "keywords": [],
10  "author": "",
11  "license": "ISC",
12  "dependencies": {
13    "dotenv": "^16.4.5",
14    "mongodb": "^6.6.2"
15  }
16 }
17
```

PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERMINAL

PS C:\Users\berka\OneDrive\Masaüstü\CENG File\BTU Ders Dosyaları\2023-2024 Bahar Dönemi\BL\0470 - NodeJS ile Web Programlama\Projects\RaporKodlari\Hafta12\_RaporKodlari> npm i mongodb dotenv

added 13 packages, and audited 14 packages in 8s

1 package is looking for funding  
run 'npm fund' for details

found 0 vulnerabilities

```
.env
1 CONNECTION_URL="mongodb+srv://berka:berka@cluster0.mongodb.net/?retryWrites=true&w=majority&appName=mongo-express"
```

```
index.js > ...
1 require("dotenv").config();
2 const { MongoClient } = require("mongodb");
3
4 const client = new MongoClient(process.env.CONNECTION_URL);
5
6 const DB_NAME = "task_manager";
7
8 const main = async () => {
9   try {
10     const result = await client.connect();
11     console.log("Connected to the database");
12   } catch (err) {
13     console.error(err);
14   } finally {
15     await client.close();
16   }
17 };
18
19 main();
```

PS C:\Users\berka\OneDrive\Masaüstü\CENG File\BTU Ders Dosyaları\2023-2024 Bahar Dönemi\BLM0470 - NodeJS ile Web Programlama\Projects\RaporKodlar

i> node .\index.js

Connected to the database

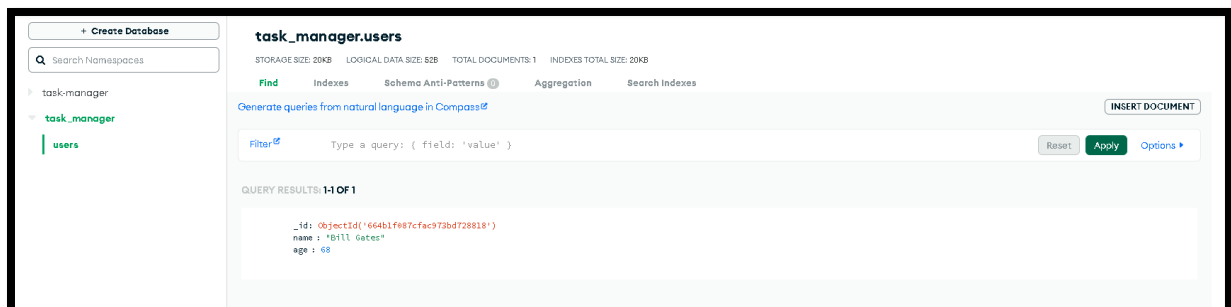
...

```
package.json index.js .env
index.js > ...
1 require("dotenv").config();
2 const { MongoClient } = require("mongodb");
3
4 const client = new MongoClient(process.env.CONNECTION_URL);
5
6 const DB_NAME = "task_manager";
7
8 const main = async () => {
9   const usersCollection = client.db(DB_NAME).collection("users");
10   const tasksCollection = client.db(DB_NAME).collection("tasks");
11
12   try {
13     await client.connect();
14     //console.log("Connected to the database");
15     const result = await usersCollection.insertOne({
16       name: "Bill Gates",
17       age: 68,
18     });
19
20     console.log(`A document was inserted with the _id: ${result.insertedId}`);
21   } catch (err) {
22     console.error(err);
23   } finally {
24     await client.close();
25   }
26 };
27
28 main();
29
```

PS C:\Users\berka\OneDrive\Masaüstü\CENG File\BTU Ders Dosyaları\2023-2024 Bahar Dönemi\BLM0470 - NodeJS ile Web Programlama\Projects\RaporKodlari\Hafta12\_RaporKodlar

i> node .\index.js

A document was inserted with the \_id: 664b1f087cfac973bd728818



```
index.js > ...
1 require("dotenv").config();
2 const { MongoClient } = require("mongodb");
3
4 const client = new MongoClient(process.env.CONNECTION_URL);
5
6 const DB_NAME = "task_manager";
7
8 const main = async () => {
9   const usersCollection = client.db(DB_NAME).collection("users");
10  const tasksCollection = client.db(DB_NAME).collection("tasks");
11
12  try {
13    await client.connect();
14    //console.log("Connected to the database");
15
16    const users = [
17      { name: "Leo", age: 19 },
18      { name: "Luis", age: 20 },
19      { name: "Luisa", age: 21 },
20    ];
21
22    const result = await usersCollection.insertMany(users);
23    console.log(`${result.insertedCount} documents inserted successfully!`);
24  } catch (err) {
25    console.error(err);
26  } finally {
27    await client.close();
28  }
29 };
30
31 main();
32
```

PS C:\Users\berka\OneDrive\Masaüstü\CENG File\BTU Ders Dosyaları\2023-2024 Bahar Dönemi\BLM\0470 - NodeJS ile Web Programlama\Projects\RaporKodlari\Hafta12\_RaporKodlari> node .\index.js

3 documents inserted successfully!

### task\_manager.users

STORAGE SIZE: 36KB LOGICAL DATA SIZE: 190B TOTAL DOCUMENTS: 4 INDEXES TOTAL SIZE: 36KB

**Find** Indexes Schema Anti-Patterns Aggregation Search Indexes

Generate queries from natural language in Compass

Filter Type a query: { field: 'value' }

QUERY RESULTS: 1-4 OF 4

<pre>{   "_id": ObjectId('664b1f087cfac973bd728818'),   "name": "Bill Gates",   "age": 68 }</pre>
<pre>{   "_id": ObjectId('664b20423a90dbf7b364353c'),   "name": "Leo",   "age": 19 }</pre>
<pre>{   "_id": ObjectId('664b20423a90dbf7b364353d'),   "name": "Luis",   "age": 20 }</pre>
<pre>{   "_id": ObjectId('664b20423a90dbf7b364353e'),   "name": "Luisa",   "age": 21 }</pre>

```
index.js > ...
1  require("dotenv").config();
2  const { MongoClient } = require("mongodb");
3
4  const client = new MongoClient(process.env.CONNECTION_URL);
5
6  const DB_NAME = "task_manager";
7
8  const main = async () => {
9    const usersCollection = client.db(DB_NAME).collection("users");
10   const tasksCollection = client.db(DB_NAME).collection("tasks");
11
12   try {
13     await client.connect();
14     //console.log("Connected to the database");
15
16     const result = await usersCollection.updateOne(
17       { name: "Leo" },
18       { $set: { name: "Leonardo", age: 25 } }
19     );
20
21     console.log(`Updated ${result.modifiedCount} document(s)`);
22   } catch (err) {
23     console.error(err);
24   } finally {
25     await client.close();
26   }
27 };
28
29 main();
```

PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERMINAL

powershell +

```
PS C:\Users\berka\OneDrive\Masaüstü\CENG File\BTU Ders Dosyaları\2023-2024 Bahar Dönemi\BLM0470 - NodeJS ile Web Programlama\Projects\RaporKodları\Haf
i> node .\index.js
Updated 1 document(s)
```

## task\_manager.users

STORAGE SIZE: 36KB

LOGICAL DATA SIZE: 195B

TOTAL DOCUMENTS: 4

INDEXES TOTAL SIZE: 36KB

**Find**

Indexes

Schema Anti-Patterns 0

Aggregation

See

[Generate queries from natural language in Compass](#)

Filter

Type a query: { field: 'value' }

```
_id: ObjectId('664b1f087cfac973bd728818')
name : "Bill Gates"
age : 68
```

```
_id: ObjectId('664b20423a90dbf7b364353c')
name : "Leonardo"
age : 25
```

```
_id: ObjectId('664b20423a90dbf7b364353d')
name : "Luis"
age : 20
```

```
_id: ObjectId('664b20423a90dbf7b364353e')
name : "Luisa"
age : 21
```

```
index.js > main
1 require("dotenv").config();
2 const { MongoClient } = require("mongodb");
3
4 const client = new MongoClient(process.env.CONNECTION_URL);
5
6 const DB_NAME = "task_manager";
7
8 const main = async () => {
9   const usersCollection = client.db(DB_NAME).collection("users");
10  const tasksCollection = client.db(DB_NAME).collection("tasks");
11
12  try {
13    await client.connect();
14    //console.log("Connected to the database");
15
16    const cursor = usersCollection.find();
17    while (await cursor.hasNext()) {
18      console.log(await cursor.next());
19    }
20  } catch (err) {
21    console.error(err);
22  } finally {
23    await client.close();
24  }
25 };
26
27 main();
```

PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERMINAL

PS C:\Users\berka\OneDrive\Masaüstü\CENG File\BTU Ders Dosyaları\2023-2024 Bahar Dönemi\BLM0470 - NodeJS ile Web Programlama\Projects\RaporKodları\Hafta12\_RaporKodları> i> node .\index.js

```
{
  _id: new ObjectId('664b1f087cfac973bd728810'),
  name: 'Bill Gates',
  age: 68
}
{
  _id: new ObjectId('664b20423a90dbf7b364353c'),
  name: 'Leonardo',
  age: 25
}
{
  _id: new ObjectId('664b20423a90dbf7b364353d'),
  name: 'Luis',
  age: 20
}
{
  _id: new ObjectId('664b20423a90dbf7b364353e'),
  name: 'Luisa',
  age: 21
}
```

```
index.js > ...
1 require("dotenv").config();
2 const { MongoClient } = require("mongodb");
3
4 const client = new MongoClient(process.env.CONNECTION_URL);
5
6 const DB_NAME = "task_manager";
7
8 const main = async () => {
9   const usersCollection = client.db(DB_NAME).collection("users");
10  const tasksCollection = client.db(DB_NAME).collection("tasks");
11
12  try {
13    await client.connect();
14    //console.log("Connected to the database");
15    const result = await usersCollection.findOne({ name: "Mark" });
16    if (!result) {
17      console.log("User not found");
18    } else {
19      console.log(`Found user: ${JSON.stringify(result)}`);
20    }
21  } catch (err) {
22    console.error(err);
23  } finally {
24    await client.close();
25  }
26 };
27
28 main();
```

PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERMINAL

PS C:\Users\berka\OneDrive\Masaüstü\CENG File\BTU Ders Dosyaları\2023-2024 Bahar Dönemi\BLM0470 - NodeJS ile Web Programlama\Projects\RaporKodları\Hafta12\_RaporKodları> i> node .\index.js

```
User not found
```



```
index.js > [0] main > [0] result > [0] name
1  require("dotenv").config();
2  const { MongoClient } = require("mongodb");
3
4  const client = new MongoClient(process.env.CONNECTION_URL);
5
6  const DB_NAME = "task_manager";
7
8  const main = async () => {
9    const usersCollection = client.db(DB_NAME).collection("users");
10   const tasksCollection = client.db(DB_NAME).collection("tasks");
11
12   try {
13     await client.connect();
14     //console.log("Connected to the database");
15     const result = await usersCollection.findOne({ name: "Luis" });
16     if (!result) {
17       console.log("User not found");
18     } else {
19       console.log(`Found user: ${JSON.stringify(result)}`);
20     }
21   } catch (err) {
22     console.error(err);
23   } finally {
24     await client.close();
25   }
26 };
27
28 main();
29
```

PS C:\Users\berka\OneDrive\Masaüstü\CENG File\BTU Ders Dosyaları\2023-2024 Bahar Dönemi\BLM0470 - NodeJS ile Web Programlama\Projects\RaporKodları\Hafta12\_RaporKodları> node .\index.js

Found user: {"\_id":"664b20423a90dbf7b364353d","name":"Luis","age":20}

```
index.js > [0] main > [0] tasks
1  require("dotenv").config();
2  const { MongoClient } = require("mongodb");
3
4  const client = new MongoClient(process.env.CONNECTION_URL);
5
6  const DB_NAME = "task_manager";
7
8  const main = async () => {
9    const usersCollection = client.db(DB_NAME).collection("users");
10   const tasksCollection = client.db(DB_NAME).collection("tasks");
11
12   try {
13     await client.connect();
14     //console.log("Connected to the database");
15     const tasks = [
16       { description: "Clean the house", completed: true },
17       { description: "Water plants", completed: true },
18       { description: "See the doctor", completed: false },
19     ];
20
21     const result = await tasksCollection.insertMany(tasks);
22     console.log(`${result.insertedCount} documents inserted successfully!`);
23   } catch (err) {
24     console.error(err);
25   } finally {
26     await client.close();
27   }
28 };
29
30 main();
31
```

PS C:\Users\berka\OneDrive\Masaüstü\CENG File\BTU Ders Dosyaları\2023-2024 Bahar Dönemi\BLM0470 - NodeJS ile Web Programlama\Projects\RaporKodları\Hafta12\_RaporKodları> node .\index.js

3 documents inserted successfully!

