

NATIONAL TECHNICAL UNIVERSITY OF UKRAINE "IGOR SIKORSKY KYIV POLYTECHNIC INSTITUTE"

Faculty of Informatics and Computer Engineering Department of Computer Engineering

Лабораторная работа 6 Node.js и MongoDB

Цель: получить практические навыки работы с Node.js и MongoDB.

2nd year student groups of IP-98 CEM KOYLUOGLU

```
const express = require('express')
const app = express()
const cors = require('cors');
const {MongoClient} = require('mongodb');
const main = async () => {
  const uri =
'mongodb://localhost:27017/?readPreference=primary&appname=MongoDB
%20Compass&ssl=false';
  const client = new MongoClient(uri);
  try {
    await client.connect()
    return client
  } catch (e) {
    throwError()
  }
}
let users = null;
main().then((response) => {
  users = response.db('usersdb').collection('users')
});
app.get('/',(req,res) => {
  //1
```

```
users.find().toArray((err,result) => {
    console.log(result.slice(0,5))
  })
  //2
  users.find({languages: ['english','franch']}).toArray(read);
  //3
  users.find({ "languages.0" : "english"}).toArray(read);
  //4
  users.find({hobby: 'music'}).toArray(read);
  //5
  users.find({age : {$lt: 30,$gt: 24}}).toArray(read)
})
const read = (err,result) => {
  if (err){
    console.log(err)
  }
  console.log(result)
}
```

app.use(cors())

app.use(express.json())
app.listen(8080, () => console.log('server started at 8080 port'))

```
2020-05-18T10:24:33.873+0300 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --ssl
sabledProtocols 'none'
2020-05-18T10:24:34.550+0300 W ASIO
                                         [main] No TransportLayer configured during NetworkInterface startup
                                        [initandlisten] MongoDB starting : pid=1800 port=27017 dbpath=C:\data\db\ 64-b
2020-05-18T10:24:34.551+0300 I CONTROL
 host=DESKTOP-U9G2542
2020-05-18T10:24:34.551+0300 I CONTROL
                                        [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
                                        [initandlisten] db version v4.2.6
2020-05-18T10:24:34.552+0300 I CONTROL
                                        [initandlisten] git version: 20364840b8f1af16917e4c23c1b5f5efd8b352f8
2020-05-18T10:24:34.552+0300 I CONTROL
2020-05-18T10:24:34.552+0300 I CONTROL
                                         [initandlisten] allocator: tcmalloc
2020-05-18T10:24:34.552+0300 I CONTROL
                                        [initandlisten] modules: none
                                         [initandlisten] build environment:
2020-05-18T10:24:34.553+0300 I CONTROL
2020-05-18T10:24:34.553+0300 I CONTROL
                                        [initandlisten]
                                                            distmod: 2012plus
                                        [initandlisten]
                                                            distarch: x86 64
2020-05-18T10:24:34.553+0300 I CONTROL
                                        [initandlisten]
                                                            target arch: x86 64
2020-05-18T10:24:34.553+0300 I CONTROL
                                        [initandlisten] options: {}
2020-05-18T10:24:34.553+0300 I CONTROL
2020-05-18T10:24:34.627+0300 I STORAGE [initandlisten] Detected data files in C:\data\db\ created by the 'wiredTiger
storage engine, so setting the active storage engine to 'wiredTiger'.
2020-05-18T10:24:34.628+0300 I STORAGE [initandlisten] wiredtiger open config: create.cache size=1484M.cache overflow
file max=0M), session max=33000, eviction=(threads min=4, threads max=4), config base=false, statistics=(fast), log=(enabled
true,archive=true.path=journal.compressor=snappy).file manager=(close idle time=100000.close scan interval=10.close har
le minimum=250), statistics log=(wait=0), verbose=[recovery progress, checkpoint progress],
2020-05-18T10:24:34.928+0300 I STORAGE [initandlisten] WiredTiger message [1589786674:928062][1800:140708759362000]
xn-recover: Recovering log 2 through 3
2020-05-18T10:24:35.069+0300 I STORAGE [initandlisten] WiredTiger message [1589786675:69436][1800:140708759362000],
n-recover: Recovering log 3 through 3
2020-05-18T10:24:35.234+0300 I STORAGE [initandlisten] WiredTiger message [1589786675:234464][1800:140708759362000],
xn-recover: Main recovery loop: starting at 2/6144 to 3/256
2020-05-18T10:24:35.493+0300 I STORAGE [initandlisten] WiredTiger message [1589786675:493368][1800:140708759362000],
xn-recover: Recovering log 2 through 3
```

```
db.users.insertOne({
                                                         name : 'geek))',
                                                         languages : []
                                                     })
        age : 30,
       hobby: 'none',
       languages : []
... });
        "acknowledged" : true,
        "insertedId" : ObjectId("6038f74f6b7ad949fa61e77a")
 db.users.find().limit(5);
```