Advances In Web Technologies-(MDI3001)(L27+L28)

SRUTHI S (19MID0053)

LAB ASSESSMENT-5

1.) Create patient DB with necessary fields and Perform CURD operation.

PATIENT DATABASE:

>mongod.exe

>mongo.exe

>show dbs;

Creating database and Collection:

Database Name: PatientDetails

Collection Name: patientdb

Inserting records:

>db.patientdb.insert({PatientId:1,PatientName:"kowshik",Age:19,Department:"Cardiology",Address:"Katpadi,vellore",Email:"kowshik@gmail.com",Bloodgrp:"O+ve",Phone:9360745079,DateofAppointment:new Date("2021-11-11")})

>db.patientdb.insert({PatientId:2,PatientName:"Sridhar",Age:19,Department:"Ortho", Address:"Thottapalayam,vellore",Email:"sridhar@gmail.com",Bloodgrp:"A+ve",Phone:9360745126,DateofAppointment:new Date("2021-12-15")})

>db.patientdb.insert({PatientId:3,PatientName:"Nishanth",Age:18,Department:"Cardiology",Address:"Bagayam,vellore",Email:"nishanth@gmail.com",Bloodgrp:"O-ve",Phone:9360745456,DateofAppointment:new Date("2021-12-16")})

>db.patientdb.insert({PatientId:4,PatientName:"Tharun",Age:23,Department:"Ortho", Address:"Thorapadi,vellore",Email:"tharun@gmail.com",Bloodgrp:"B+ve",Phone:9360123456,DateofAppointment:new Date("2021-12-17")})

>db.patientdb.insert({PatientId:5,PatientName:"Sheema",Age:23,Department:"Physio" ,Address:"Sathuvachari,vellore",Email:"sheema@gmail.com",Bloodgrp:"AB-ve",Phone:9450123456,DateofAppointment:new Date("2021-12-18")})

Displaying Records:

> db.patientdb.find().pretty()

```
{
        "_id" : ObjectId("61a860ff90cafa9a1058ec1a"),
        "PatientId" : 4,
        "PatientName" : "Tharun",
        "Age" : 23,
        "Department" : "Ortho",
        "Address" : "Thorapadi,vellore",
        "Email" : "tharun@gmail.com",
        "Bloodgrp" : "B+ve",
        "Phone" : 9360123456,
        "DateofAppointment" : ISODate("2021-12-17T00:00:00Z")
}
{
        "_id" : ObjectId("61a8610a90cafa9a1058ec1b"),
        "PatientId" : 5,
        "PatientName" : "Sheema",
        "Age" : 23,
        "Department" : "Physio",
        "Address" : "Sathuvachari,vellore",
        "Email" : "sheema@gmail.com",
        "Bloodgrp" : "AB-ve",
        "Phone" : 9450123456,
        "DateofAppointment" : ISODate("2021-12-18T00:00:00Z")
}
```

Update:

> *db.patientdb.find({PatientName:"Sheema"}).pretty()*

```
> db.patientdb.find({PatientName:"Sheema"}).pretty()
{
        "_id" : ObjectId("61a8610a90cafa9a1058ec1b"),
        "PatientId" : 5,
        "PatientName" : "Sheema",
        "Age" : 23,
        "Department" : "Physio",
        "Address" : "Sathuvachari,vellore",
        "Email" : "sheema@gmail.com",
        "Bloodgrp" : "AB-ve",
        "Phone" : 9450123456,
        "DateofAppointment" : ISODate("2021-12-18T00:00:00Z")
}
```

➔ *Address is getting updated here.*

> *db.patientdb.update(*

...   { PatientName:"Sheema" },

...   {

... $set: {

...   Address: "Velapadi,vellore"

...   }

...   }

...)

```
> db.patientdb.update(
...  ...      { PatientName:"Sheema" },
...  ...      {
...  ...          $set: {
...  ...             Address: "Velapadi,vellore"
...  ...          }
...  ...      }
...  ...  )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

> db.patientdb.find({PatientName:"Sheema"}).pretty()

```
> db.patientdb.find({PatientName:"Sheema"}).pretty()
{
        "_id" : ObjectId("61a8610a90cafa9a1058ec1b"),
        "PatientId" : 5,
        "PatientName" : "Sheema",
        "Age" : 23,
        "Department" : "Physio",
        "Address" : "Velapadi,vellore",
        "Email" : "sheema@gmail.com",
        "Bloodgrp" : "AB-ve",
        "Phone" : 9450123456,
        "DateofAppointment" : ISODate("2021-12-18T00:00:00Z")
}
>
```

Remove:

> db.patientdb.find({Age:19}).pretty()

```
> db.patientdb.find({Age:19}).pretty()
{
        "_id" : ObjectId("61a860d390cafa9a1058ec17"),
        "PatientId" : 1,
        "PatientName" : "kowshik",
        "Age" : 19,
        "Department" : "Cardiology",
        "Address" : "Katpadi,vellore",
        "Email" : "kowshik@gmail.com",
        "Bloodgrp" : "O+ve",
        "Phone" : 9360745079,
        "DateofAppointment" : ISODate("2021-11-11T00:00:00Z")
}
{
        "_id" : ObjectId("61a860e390cafa9a1058ec18"),
        "PatientId" : 2,
        "PatientName" : "Sridhar",
        "Age" : 19,
        "Department" : "Ortho",
        "Address" : "Thottapalayam,vellore",
        "Email" : "sridhar@gmail.com",
        "Bloodgrp" : "A+ve",
        "Phone" : 9360745126,
        "DateofAppointment" : ISODate("2021-12-15T00:00:00Z")
}
>
```

> *db.patientdb.remove(*

...   { Age: 19 }

...)

WriteResult({ "nRemoved" : 2 })

> *db.patientdb.find({Age:19}).pretty()*

```
> db.patientdb.remove(
... ...      { Age: 19 }
... ... )
WriteResult({ "nRemoved" : 2 })
> db.patientdb.remove(     { Age: 19 } )
WriteResult({ "nRemoved" : 0 })
>
```

> *db.patientdb.find().pretty()*

```
> db.patientdb.find().pretty()
{
        "_id" : ObjectId("61a860ef90cafa9a1058ec19"),
        "PatientId" : 3,
        "PatientName" : "Nishanth",
        "Age" : 18,
        "Department" : "Cardiology",
        "Address" : "Bagayam,vellore",
        "Email" : "nishanth@gmail.com",
        "Bloodgrp" : "O-ve",
        "Phone" : 9360745456,
        "DateofAppointment" : ISODate("2021-12-16T00:00:00Z")
}
{
        "_id" : ObjectId("61a860ff90cafa9a1058ec1a"),
        "PatientId" : 4,
        "PatientName" : "Tharun",
        "Age" : 23,
        "Department" : "Ortho",
        "Address" : "Thorapadi,vellore",
        "Email" : "tharun@gmail.com",
        "Bloodgrp" : "B+ve",
        "Phone" : 9360123456,
        "DateofAppointment" : ISODate("2021-12-17T00:00:00Z")
}
{
        "_id" : ObjectId("61a8610a90cafa9a1058ec1b"),
        "PatientId" : 5,
        "PatientName" : "Sheema",
        "Age" : 23,
        "Department" : "Physio",
        "Address" : "Velapadi,vellore",
        "Email" : "sheema@gmail.com",
        "Bloodgrp" : "AB-ve",
        "Phone" : 9450123456,
        "DateofAppointment" : ISODate("2021-12-18T00:00:00Z")
}
>
```

➔ *Patients with Age = 19, got removed from the database.*

Delete:

```
> try {
...    db.patientdb.deleteOne( { "PatientName" : "Nishanth" } );
... } catch (e) {
...    print(e);
... }
{ "acknowledged" : true, "deletedCount" : 0 }
```

```
> try {
... ...     db.patientdb.deleteOne( { "PatientName" : "Nishanth" } );
... ... } catch (e) {
... ...     print(e);
... ... }
{ "acknowledged" : true, "deletedCount" : 1 }
```

> db.patientdatabase.find().pretty()

```
> db.patientdb.find().pretty()
{
        "_id" : ObjectId("61a860ff90cafa9a1058ec1a"),
        "PatientId" : 4,
        "PatientName" : "Tharun",
        "Age" : 23,
        "Department" : "Ortho",
        "Address" : "Thorapadi,vellore",
        "Email" : "tharun@gmail.com",
        "Bloodgrp" : "B+ve",
        "Phone" : 9360123456,
        "DateofAppointment" : ISODate("2021-12-17T00:00:00Z")
}
{
        "_id" : ObjectId("61a8610a90cafa9a1058ec1b"),
        "PatientId" : 5,
        "PatientName" : "Sheema",
        "Age" : 23,
        "Department" : "Physio",
        "Address" : "Velapadi,vellore",
        "Email" : "sheema@gmail.com",
        "Bloodgrp" : "AB-ve",
        "Phone" : 9450123456,
        "DateofAppointment" : ISODate("2021-12-18T00:00:00Z")
}
>
```

➔ Patient named "Nishanth" got deleted from the database.

2.) Create EMP DB with necessary fields and perform CURD operation.

EMPLOYEE DATABASE:

>mongod.exe

>mongo.exe

>show dbs;

>use emloyeedb;

>db

>db.createCollection.emp;

>show collections;

Database Name: employeedb

Collection Name: employeedb.emp

Inserting 10 records in DB:

>db.employeedb.emp.insert({emp_id:1232,emp_name:"laya",age:23,dep="sales",contact:3443224343,mail:laya@gmail.com ,sal:45000,year_of_joing:2013});

>db.employeedb.emp.insert({emp_id:1242,emp_name:"vidya",age:43,dep="sales",contact:353543524343,mail:vidya123@gmail.com ,sal:68000,year_of_joing:2010});

……

>db.employeedb.emp.insert({emp_id:1232,emp_name:"gops",age:48,dep="marketing",contact:6566767673,mail:gops19@gmail.com ,sal:23000,year_of_joing:2020});

```
employeedb
> db.employeedb.emp.insert({emp_id:1232,emp_name:"laya",age:23,dep="sales",conta
ct:3443224343,mail:"laya@gmail.com",sal:45000,year_of_joing:2013});
2021-11-26T10:16:28.308+0530 E QUERY    [thread1] SyntaxError: missing : after p
roperty id @(shell):1:64
> db.employeedb.emp.insert({emp_id:1232,emp_name:"laya",age:23,dep:"sales",conta
ct:3443224343,mail:"laya@gmail.com",sal:45000,year_of_joing:2013});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1242,emp_name:"vidya",age:43,dep:"production"
,contact:343543524343,mail:"vidya123@gmail.com",sal:68000,year_of_joing:2010});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1342,emp_name:"daya",age:53,dep:"marketing",c
ontact:3333524343,mail:"daya3@gmail.com",sal:56000,year_of_joing:2015});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1332,emp_name:"dada",age:57,dep:"finance",con
tact:352444343433,mail:"dada43@gmail.com",sal:23000,year_of_joing:2001});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1762,emp_name:"nive",age:35,dep:"HR",contact:
355776433,mail:"niveee@gmail.com",sal:46000,year_of_joing:1999});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1962,emp_name:"sarathu",age:65,dep:"productio
n",contact:35588833,mail:"sarath@gmail.com",sal:89000,year_of_joing:1997});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1882,emp_name:"sruthi",age:35,dep:"sales",con
tact:366776767673,mail:"sruthih@gmail.com",sal:46000,year_of_joing:2017});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1862,emp_name:"nithu",age:25,dep:"HR",contact
:36667673,mail:"nithu24@gmail.com",sal:70000,year_of_joing:2012});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1862,emp_name:"sheemu",age:42,dep:"production
",contact:65465667673,mail:"sheemu4@gmail.com",sal:76000,year_of_joing:1999});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1862,emp_name:"gops",age:48,dep:"marketing",c
ontact:65667673,mail:"gops19@gmail.com",sal:23000,year_of_joing:2020});
WriteResult({ "nInserted" : 1 })
>
```

Displaying records using find() command:

>db.employeedb.emp.find();

Displaying records using find() command along with pretty():

>db.employeedb.emp.find().pretty();

```
"contact" : 355776433,
"mail" : "niveee@gmail.com",
"sal" : 46000,
"year_of_joing" : 1999
}
{
    "_id" : ObjectId("61a068ebdcce735276c75542"),
    "emp_id" : 1962,
    "emp_name" : "sarathu",
    "age" : 65,
    "dep" : "production",
    "contact" : 35588833,
    "mail" : "sarath@gmail.com",
    "sal" : 89000,
    "year_of_joing" : 1997
}
{
    "_id" : ObjectId("61a06921dcce735276c75543"),
    "emp_id" : 1882,
    "emp_name" : "sruthi",
    "age" : 35,
    "dep" : "sales",
    "contact" : 366776767673,
    "mail" : "sruthih@gmail.com",
    "sal" : 46000,
    "year_of_joing" : 2017
}
{
    "_id" : ObjectId("61a06995dcce735276c75544"),
    "emp_id" : 1862,
    "emp_name" : "nithu",
    "age" : 25,
    "dep" : "HR",
    "contact" : 36667673,
    "mail" : "nithu24@gmail.com",
    "sal" : 70000,
    "year_of_joing" : 2012
}
{
    "_id" : ObjectId("61a069f5dcce735276c75545"),
    "emp_id" : 1862,
    "emp_name" : "sheemu",
    "age" : 42,
    "dep" : "production",
    "contact" : 65465667673,
    "mail" : "sheemu4@gmail.com",
    "sal" : 76000,
    "year_of_joing" : 1999
}
{
    "_id" : ObjectId("61a06a72dcce735276c75546"),
    "emp_id" : 1862,
    "emp_name" : "gops",
    "age" : 48,
    "dep" : "marketing",
    "contact" : 65667673,
    "mail" : "gops19@gmail.com",
    "sal" : 23000,
    "year_of_joing" : 2020
}
>
```

Details of employee joined after 2000:

>db.employeedb.emp.find({year_of_joing:({$gt:2000}}).pretty();

```
> db.employeedb.emp.find({year_of_joing:{$gt:2000}}).pretty();
{
        "_id" : ObjectId("61a066bbdcce735276c7553d"),
        "emp_id" : 1232,
        "emp_name" : "laya",
        "age" : 23,
        "dep" : "sales",
        "contact" : 3443224343,
        "mail" : "laya@gmail.com",
        "sal" : 45000,
        "year_of_joing" : 2013
}
{
        "_id" : ObjectId("61a067addcce735276c7553e"),
        "emp_id" : 1242,
        "emp_name" : "vidya",
        "age" : 43,
        "dep" : "production",
        "contact" : 343543524343,
        "mail" : "vidya123@gmail.com",
        "sal" : 68000,
        "year_of_joing" : 2010
}
{
        "_id" : ObjectId("61a06810dcce735276c7553f"),
        "emp_id" : 1342,
        "emp_name" : "daya",
        "age" : 53,
        "dep" : "marketing",
        "contact" : 3333524343,
        "mail" : "daya3@gmail.com",
        "sal" : 56000,
        "year_of_joing" : 2015
}
{
        "_id" : ObjectId("61a06850dcce735276c75540"),
        "emp_id" : 1332,
        "emp_name" : "dada",
        "age" : 57,
        "dep" : "finance",
        "contact" : 352444343433,
        "mail" : "dada43@gmail.com",
        "sal" : 23000,
        "year_of_joing" : 2001
}
{
        "_id" : ObjectId("61a06921dcce735276c75543"),
        "emp_id" : 1882,
        "emp_name" : "sruthi",
        "age" : 35,
        "dep" : "sales",
        "contact" : 366776767673,
        "mail" : "sruthih@gmail.com",
        "sal" : 46000,
        "year_of_joing" : 2017
}
{
        "_id" : ObjectId("61a06995dcce735276c75544"),
        "emp_id" : 1862,
        "emp_name" : "nithu",
        "age" : 25,
        "dep" : "HR",
        "contact" : 36667673,
        "mail" : "nithu24@gmail.com",
        "sal" : 70000,
        "year_of_joing" : 2012
}
{
        "_id" : ObjectId("61a06a72dcce735276c75546"),
        "emp_id" : 1862,
        "emp_name" : "gops",
        "age" : 48,
        "dep" : "marketing",
        "contact" : 65667673,
        "mail" : "gops19@gmail.com",
        "sal" : 23000,
        "year_of_joing" : 2020
}
>
```

Details of employee in production team:

>db.employeedb.emp.find({dep:"production"}).pretty();

```
> db.employeedb.emp.find({dep:"production"}).pretty();
{
        "_id" : ObjectId("61a067addcce735276c7553e"),
        "emp_id" : 1242,
        "emp_name" : "vidya",
        "age" : 43,
        "dep" : "production",
        "contact" : 343543524343,
        "mail" : "vidya123@gmail.com",
        "sal" : 68000,
        "year_of_joing" : 2010
}
{
        "_id" : ObjectId("61a068ebdcce735276c75542"),
        "emp_id" : 1962,
        "emp_name" : "sarathu",
        "age" : 65,
        "dep" : "production",
        "contact" : 35588833,
        "mail" : "sarath@gmail.com",
        "sal" : 89000,
        "year_of_joing" : 1997
}
{
        "_id" : ObjectId("61a069f5dcce735276c75545"),
        "emp_id" : 1862,
        "emp_name" : "sheemu",
        "age" : 42,
        "dep" : "production",
        "contact" : 65465667673,
        "mail" : "sheemu4@gmail.com",
        "sal" : 76000,
        "year_of_joing" : 1999
}
>
```

Details of employee with specific empid:

>db.employeedb.emp.find({emp_id:1242}).pretty();

```
> db.employeedb.emp.find({emp_id:1242}).pretty();
{
        "_id" : ObjectId("61a067addcce735276c7553e"),
        "emp_id" : 1242,
        "emp_name" : "vidya",
        "age" : 43,
        "dep" : "production",
        "contact" : 343543524343,
        "mail" : "vidya123@gmail.com",
        "sal" : 68000,
        "year_of_joing" : 2010
}
>
```

Details of employee salary >50000:

>db.employeedb.emp.find({sal:({$gt:50000}}).pretty();

```
> db.employeedb.emp.find({sal:{$gt:50000}}).pretty();
{
        "_id" : ObjectId("61a067addcce735276c7553e"),
        "emp_id" : 1242,
        "emp_name" : "vidya",
        "age" : 43,
        "dep" : "production",
        "contact" : 343543524343,
        "mail" : "vidya123@gmail.com",
        "sal" : 68000,
        "year_of_joing" : 2010
}
{
        "_id" : ObjectId("61a06810dcce735276c7553f"),
        "emp_id" : 1342,
        "emp_name" : "daya",
        "age" : 53,
        "dep" : "marketing",
        "contact" : 3333524343,
        "mail" : "daya3@gmail.com",
        "sal" : 56000,
        "year_of_joing" : 2015
}
{
        "_id" : ObjectId("61a068ebdcce735276c75542"),
        "emp_id" : 1962,
        "emp_name" : "sarathu",
        "age" : 65,
        "dep" : "production",
        "contact" : 35588833,
        "mail" : "sarath@gmail.com",
        "sal" : 89000,
        "year_of_joing" : 1997
}
{
        "_id" : ObjectId("61a06995dcce735276c75544"),
        "emp_id" : 1862,
        "emp_name" : "nithu",
        "age" : 25,
        "dep" : "HR",
        "contact" : 36667673,
        "mail" : "nithu24@gmail.com",
        "sal" : 70000,
        "year_of_joing" : 2012
}
{
        "_id" : ObjectId("61a069f5dcce735276c75545"),
        "emp_id" : 1862,
        "emp_name" : "sheemu",
        "age" : 42,
        "dep" : "production",
        "contact" : 65465667673,
        "mail" : "sheemu4@gmail.com",
        "sal" : 76000,
        "year_of_joing" : 1999
}
>
```

Employee details in sorted order:

>db.employeedb.emp.find().sort({KEY:1}).pretty();

Command Prompt - mongo.exe

```
> db.employeedb.emp.find().sort({KEY:1}).pretty();
{
        "_id" : ObjectId("61a066bbdcce735276c7553d"),
        "emp_id" : 1232,
        "emp_name" : "laya",
        "age" : 23,
        "dep" : "sales",
        "contact" : 3443224343,
        "mail" : "laya@gmail.com",
        "sal" : 45000,
        "year_of_joing" : 2013
}
{
        "_id" : ObjectId("61a067addcce735276c7553e"),
        "emp_id" : 1242,
        "emp_name" : "vidya",
        "age" : 43,
        "dep" : "production",
        "contact" : 343543524343,
        "mail" : "vidya123@gmail.com",
        "sal" : 68000,
        "year_of_joing" : 2010
}
{
        "_id" : ObjectId("61a06810dcce735276c7553f"),
        "emp_id" : 1342,
        "emp_name" : "daya",
        "age" : 53,
        "dep" : "marketing",
        "contact" : 3333524343,
        "mail" : "daya3@gmail.com",
        "sal" : 56000,
        "year_of_joing" : 2015
}
{
        "_id" : ObjectId("61a06850dcce735276c75540"),
        "emp_id" : 1332,
        "emp_name" : "dada",
        "age" : 57,
        "dep" : "finance",
        "contact" : 352444343433,
        "mail" : "dada43@gmail.com",
        "sal" : 23000,
        "year_of_joing" : 2001
}
{
        "_id" : ObjectId("61a06885dcce735276c75541"),
        "emp_id" : 1762,
        "emp_name" : "nive",
        "age" : 35,
        "dep" : "HR",
        "contact" : 355776433,
        "mail" : "niveee@gmail.com",
        "sal" : 46000,
        "year_of_joing" : 1999
}
{
        "_id" : ObjectId("61a068ebdcce735276c75542"),
        "emp_id" : 1962,
        "emp_name" : "sarathu",
        "age" : 65,
        "dep" : "production",
        "contact" : 35588833,
        "mail" : "sarath@gmail.com",
        "sal" : 89000,
        "year_of_joing" : 1997
}
{
        "_id" : ObjectId("61a06921dcce735276c75543"),
        "emp_id" : 1882,
        "emp_name" : "sruthi",
        "age" : 35,
        "dep" : "sales",
        "contact" : 366776767673,
        "mail" : "sruthih@gmail.com",
        "sal" : 46000,
        "year_of_joing" : 2017
}
{
        "_id" : ObjectId("61a06995dcce735276c75544"),
        "emp_id" : 1862,
        "emp_name" : "nithu",
        "age" : 25,
        "dep" : "HR",
        "contact" : 36667673,
        "mail" : "nithu24@gmail.com",
        "sal" : 70000,
        "year_of_joing" : 2012
}
{
        "_id" : ObjectId("61a069f5dcce735276c75545"),
        "emp_id" : 1862,
        "emp_name" : "sheemu",
        "age" : 42,
        "dep" : "production",
        "contact" : 65465667673,
        "mail" : "sheemu4@gmail.com",
        "sal" : 76000,
        "year_of_joing" : 1999
}
{
        "_id" : ObjectId("61a06a72dcce735276c75546"),
        "emp_id" : 1862,
        "emp_name" : "gops",
        "age" : 48,
        "dep" : "marketing",
        "contact" : 65667673,
        "mail" : "gops19@gmail.com",
        "sal" : 23000,
        "year_of_joing" : 2020
}
```

Sorting in Descending order:

>db.employeedb.emp.find().sort({KEY:-1}).pretty();

Employee details in sorted order based on salary:

>db.employeedb.emp.find().sort({sal:-1}).pretty();

```
Command Prompt - mongo.exe                                    _  □   ×

> db.employeedb.emp.find().sort({sal:-1}).pretty();
{
        "_id" : ObjectId("61a068ebdcce735276c75542"),
        "emp_id" : 1962,
        "emp_name" : "sarathu",
        "age" : 65,
        "dep" : "production",
        "contact" : 35588833,
        "mail" : "sarath@gmail.com",
        "sal" : 89000,
        "year_of_joing" : 1997
}
{
        "_id" : ObjectId("61a069f5dcce735276c75545"),
        "emp_id" : 1862,
        "emp_name" : "sheemu",
        "age" : 42,
        "dep" : "production",
        "contact" : 65465667673,
        "mail" : "sheemu4@gmail.com",
        "sal" : 76000,
        "year_of_joing" : 1999
}
{
        "_id" : ObjectId("61a06995dcce735276c75544"),
        "emp_id" : 1862,
        "emp_name" : "nithu",
        "age" : 25,
        "dep" : "HR",
        "contact" : 36667673,
        "mail" : "nithu24@gmail.com",
        "sal" : 70000,
        "year_of_joing" : 2012
}
{
        "_id" : ObjectId("61a067addcce735276c7553e"),
        "emp_id" : 1242,
        "emp_name" : "vidya",
        "age" : 43,
        "dep" : "production",
        "contact" : 34354352434 3,
        "mail" : "vidya123@gmail.com",
        "sal" : 68000,
        "year_of_joing" : 2010
}
{
        "_id" : ObjectId("61a06810dcce735276c7553f"),
        "emp_id" : 1342,
        "emp_name" : "daya",
        "age" : 53,
        "dep" : "marketing",
        "contact" : 3333524343,
        "mail" : "daya3@gmail.com",
        "sal" : 56000,
        "year_of_joing" : 2015
}
{
        "_id" : ObjectId("61a06885dcce735276c75541"),
        "emp_id" : 1762,
        "emp_name" : "nive",
        "age" : 35,
```

```
{
        "_id" : ObjectId("61a06885dcce735276c75541"),
        "emp_id" : 1762,
        "emp_name" : "nive",
        "age" : 35,
        "dep" : "HR",
        "contact" : 355776433,
        "mail" : "niveee@gmail.com",
        "sal" : 46000,
        "year_of_joing" : 1999
}
{
        "_id" : ObjectId("61a06921dcce735276c75543"),
        "emp_id" : 1882,
        "emp_name" : "sruthi",
        "age" : 35,
        "dep" : "sales",
        "contact" : 366776767673,
        "mail" : "sruthih@gmail.com",
        "sal" : 46000,
        "year_of_joing" : 2017
}
{
        "_id" : ObjectId("61a066bbdcce735276c7553d"),
        "emp_id" : 1232,
        "emp_name" : "laya",
        "age" : 23,
        "dep" : "sales",
        "contact" : 3443224343,
        "mail" : "laya@gmail.com",
        "sal" : 45000,
        "year_of_joing" : 2013
}
{
        "_id" : ObjectId("61a06850dcce735276c75540"),
        "emp_id" : 1332,
        "emp_name" : "dada",
        "age" : 57,
        "dep" : "finance",
        "contact" : 35244343433,
        "mail" : "dada43@gmail.com",
        "sal" : 23000,
        "year_of_joing" : 2001
}
{
        "_id" : ObjectId("61a06a72dcce735276c75546"),
        "emp_id" : 1862,
        "emp_name" : "gops",
        "age" : 48,
        "dep" : "marketing",
        "contact" : 65667673,
        "mail" : "gops19@gmail.com",
        "sal" : 23000,
        "year_of_joing" : 2020
}
>
```

Delete employee details with specific id:

>db.employeedb.emp.remove({emp_id:1332});

>db.employeedb.emp.find().pretty();

3.) Create a Express js form to receive data (emp data) and update in to db.

__App.js:__

```
const { MongoClient } = require('mongodb');
// or as an es module:
// import { MongoClient } from 'mongodb'


// Connection URL
const url = 'mongodb://localhost:27017';
const client = new MongoClient(url);


// Database Name
const dbName = 'employees';


async function main() {
  // Use connect method to connect to the server
  await client.connect();
  console.log('Connected successfully to server');
  const db = client.db(dbName);
  const collection = db.collection('employee_details');


  const insertResult = await
collection.insertMany([{empid:101,empname:"zainab",dept:"development",doj:"2010-06-

05T08:00:00.000",salary
:87000,age:30,num:932323326786,mail:"zainab@gmail.com"}, {
empid:102,empname:"
```

rajan",dept:"production",doj:"1998-09-16T08:00:00.000",salary

:59000,age:56,num:97899887786,mail:"raja@gmail.com" }, {

empid:103,empname:"anima",dept:"production",doj:"2001-06-14T08:00:00.000",salary

:78000,age:87,num:9765496886,mail:"anima@gmail.com" }, {empid:104,empname:"nithu

ma",dept:"testing",doj:"2008-03-16T08:00:00.000",salary

:87000,age:24,num:97886896786,mail:"nithuma4@gmail.com"},

{empid:105,empname:"gops",dept:"production",doj:"2003-06-10T08:00:00.000",salary

:67000,age:43,num:966756786,mail:"gops@gmail.com"},

{empid:106,empname:"payya",dept:"development",doj:"2006-07-15T08:00:00.000",salary

:89000,age:37,num:97888778786,mail:"payya@gmail.com"},

{empid:107,empname:"rithikl",dept:"production",doj:"1995-06-10T08:00:00.000",salary

```
  :78000,age:35,num:9443346786,mail:"rithikl@gmail.com"},

  {empid:108,empname:"hari",dept:"development",doj:"2010-06-
  11T08:00:00.000",salary

  :70000,age:27,num:97889876656,mail:"hariii@gmail.com"},

  {empid:109,empname:"soundar",dept:"production",doj:"2014-06-
  16T08:00:00.000",salary

  :80000,age:33,num:97886221323,mail:"soundar@gmail.com"},

  {empid:110,empname:"saii",dept:"development",doj:"1997-06-
  10T08:00:00.000",salary

  :35000,age:35,num:983373786,mail:"saiii@gmail.com"}]);

  console.log('Inserted documents =>', insertResult)

   return 'done.';
  }

main()
  .then(console.log)
  .catch(console.error)
  .finally(() => client.close());

;
```

```
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\S.SARATH>cd desktop

C:\Users\S.SARATH\Desktop>cd sem 5

C:\Users\S.SARATH\Desktop\sem 5>cd adc_web_tech

C:\Users\S.SARATH\Desktop\sem 5\adc_web_tech>node app.js
Connected successfully to server
Inserted documents => {
    acknowledged: true,
    insertedCount: 10,
    insertedIds: {
      '0': new ObjectId("61a86b533894fb59881744ef"),
      '1': new ObjectId("61a86b533894fb59881744f0"),
      '2': new ObjectId("61a86b533894fb59881744f1"),
      '3': new ObjectId("61a86b533894fb59881744f2"),
      '4': new ObjectId("61a86b533894fb59881744f3"),
      '5': new ObjectId("61a86b533894fb59881744f4"),
      '6': new ObjectId("61a86b533894fb59881744f5"),
      '7': new ObjectId("61a86b533894fb59881744f6"),
      '8': new ObjectId("61a86b533894fb59881744f7"),
      '9': new ObjectId("61a86b533894fb59881744f8")
    }
}
done.

C:\Users\S.SARATH\Desktop\sem 5\adc_web_tech>
```

```
> show dbs;
PatientDetails   0.000GB
admin            0.000GB
config           0.000GB
employeedb       0.000GB
employees        0.000GB
firstdb          0.000GB
local            0.000GB
myfirstexample   0.000GB
patientdb        0.000GB
> use employees;
switched to db employees
> db.employee_details.find().pretty()
{
        "_id" : ObjectId("61a86b533894fb59881744ef"),
        "empid" : 101,
        "empname" : "zainab",
        "dept" : "development",
        "doj" : "2010-06-05T08:00:00.000",
        "salary" : 87000,
        "age" : 30,
        "num" : 932323326786,
        "mail" : "zainab@gmail.com"
}
{
        "_id" : ObjectId("61a86b533894fb59881744f0"),
        "empid" : 102,
        "empname" : " rajan",
        "dept" : "production",
        "doj" : "1998-09-16T08:00:00.000",
        "salary" : 59000,
        "age" : 56,
        "num" : 97899887786,
        "mail" : "raja@gmail.com"
}
{
        "_id" : ObjectId("61a86b533894fb59881744f1"),
        "empid" : 103,
        "empname" : "anima",
        "dept" : "production",
        "doj" : "2001-06-14T08:00:00.000",
        "salary" : 78000,
        "age" : 87,
        "num" : 9765496886,
        "mail" : "anima@gmail.com"
}
{
        "_id" : ObjectId("61a86b533894fb59881744f2"),
        "empid" : 104,
        "empname" : "nithu ma",
        "dept" : "testing",
        "doj" : "2008-03-16T08:00:00.000",
        "salary" : 87000,
        "age" : 24,
        "num" : 97886896786,
        "mail" : "nithuma4@gmail.com"
}
```

```
{
        "_id" : ObjectId("61a86b533894fb59881744f3"),
        "empid" : 105,
        "empname" : "gops",
        "dept" : "production",
        "doj" : "2003-06-10T08:00:00.000",
        "salary" : 67000,
        "age" : 43,
        "num" : 966756786,
        "mail" : "gops@gmail.com"
}
{
        "_id" : ObjectId("61a86b533894fb59881744f4"),
        "empid" : 106,
        "empname" : "payya",
        "dept" : "development",
        "doj" : "2006-07-15T08:00:00.000",
        "salary" : 89000,
        "age" : 37,
        "num" : 97888778786,
        "mail" : "payya@gmail.com"
}
{
        "_id" : ObjectId("61a86b533894fb59881744f5"),
        "empid" : 107,
        "empname" : "rithikl",
        "dept" : "production",
        "doj" : "1995-06-10T08:00:00.000",
        "salary" : 78000,
        "age" : 35,
        "num" : 9443346786,
        "mail" : "rithikl@gmail.com"
}
```

```
{
        "_id" : ObjectId("61a86b533894fb59881744f6"),
        "empid" : 108,
        "empname" : "hari",
        "dept" : "development",
        "doj" : "2010-06-11T08:00:00.000",
        "salary" : 70000,
        "age" : 27,
        "num" : 97889876656,
        "mail" : "hariii@gmail.com"
}
{
        "_id" : ObjectId("61a86b533894fb59881744f7"),
        "empid" : 109,
        "empname" : "soundar",
        "dept" : "production",
        "doj" : "2014-06-16T08:00:00.000",
        "salary" : 80000,
        "age" : 33,
        "num" : 97886221323,
        "mail" : "soundar@gmail.com"
}
{
        "_id" : ObjectId("61a86b533894fb59881744f8"),
        "empid" : 110,
        "empname" : "saii",
        "dept" : "development",
        "doj" : "1997-06-10T08:00:00.000",
        "salary" : 35000,
        "age" : 35,
        "num" : 983373786,
        "mail" : "saiii@gmail.com"
}
```

4.) Create a node js program to illustrate get and Post method request.

GET METHOD:

Server3.js:

var express = require('express');

var app = express();

```
app.use(express.static('public'));
app.get('/pat.html', function (req, res) {
   res.sendFile( __dirname + "/" + "pat.html" );
})


app.get('/process_get', function (req, res) {
   // Prepare output in JSON format
   response = {
      first_name:req.query.first_name,
      last_name:req.query.last_name,
      regNo:req.query.regNo,
      sex:req.query.sex,
      dob:req.query.dob,

      mail:req.query.mail,
      year:req.query.year,
      Course:req.query.Course,
      Work:req.query.Work
   };
   console.log(response);
   res.end(JSON.stringify(response));
})


var server = app.listen(8081, function () {
   var host = server.address().address
```

```
    var port = server.address().port

    console.log("Example app listening at http://%s:%s", host, port)

})
```

Pat.html:

```html
<html>
<head>
    <title>
    HTML forms
    </title>
<style>
body {
    background-color:rgba(128, 128, 128, 0.459);
    font-size: 20px;
}
h1  {
    color: Black;
    font-size: 60px;
    text-align: center;
}
p   {color: red;}
table,td{
    font-size: 20px;
    padding: 15px;
```

```
}
table{

	background-color: white;

	border: 0px solid black;

}
td{

	/*border-spacing: 15px;*/

	border: 0px solid black;

	font-size: 30px;


}
tr:hover {background-color: rgba(243, 135, 211, 0.521);}
tr:nth-child(even) {background-color: #93ccec;}
</style>
</head>

<body >
<h1>

	PAT-Registration Form</h1>
<center>
<form action = "http://127.0.0.1:8081/process_get" method = "GET">

	<table style="width:55%;">

		<tr>

			<td><b>First Name:</b><br>
```

```html
                    <input type="text" placeholder="Enter First Name"

name="first_name">
                </td>
                <td><b>Last Name:</b><br>
                    <input type="text" placeholder="Enter Last Name"

name="last_name">
                </td>


        </tr>
        <tr>
            <td colspan="2">
                <b>Reg No.:</b><br>
                <input type="text" placeholder="Enter Reg No"

name="regNo">
                </td>
        </tr>
        <tr>
            <td colspan="2">
                <b>Sex</b><br>
                <input type="radio" name="sex">Male<br>
                <input type="radio" name="sex">Female
            </td>
        </tr>
```

```html
<tr>
	<td colspan="2">
		<b>Date Of Birth</b><br>
		<input type="date" name"dob">
	</td>
</tr>


<tr>
	<td colspan="2">
		<b>Email address:</b><br>
		<input type="email" placeholder="Enter Email"

name="mail"><br>
	</td>
</tr>
<tr>
	<td colspan="2">
		<b>Year of Graduation</b><br>
		<select name="year">
		<option value="2021">2021</option>
		<option value="2022" >2022</option>
		<option value="2023" selected>2023</option>
		<option value="2024">2024</option>
		<option value="2025">2025</option>
		</select>
```

```html
      </td>
    </tr>
    <tr>
      <td colspan="2">
        <b>Select your Course</b><br>
        <select name="Course">
          <option value="Btech CSE">Btech CSE</option>
          <option value="Int Mtech MID" selected>Int Mtech MID</option>
          <option value="Int Mtech SE">Int Mtech SE</option>
          <option value="Btech ECE">Btech ECE</option>
          <option value="Btech EEE">Btech EEE</option>
        </select>
      </td>
    </tr>
    <tr>
      <td colspan="2">
        <b>Any work Experience</b><br>
        <input type="checkbox" name="Work">Yes<br>
        <input type="checkbox" name="Work">No
      </td>
    </tr>
    <tr>
      <td colspan="2">
        <input type="submit"  value="Submit">
      </td>
```
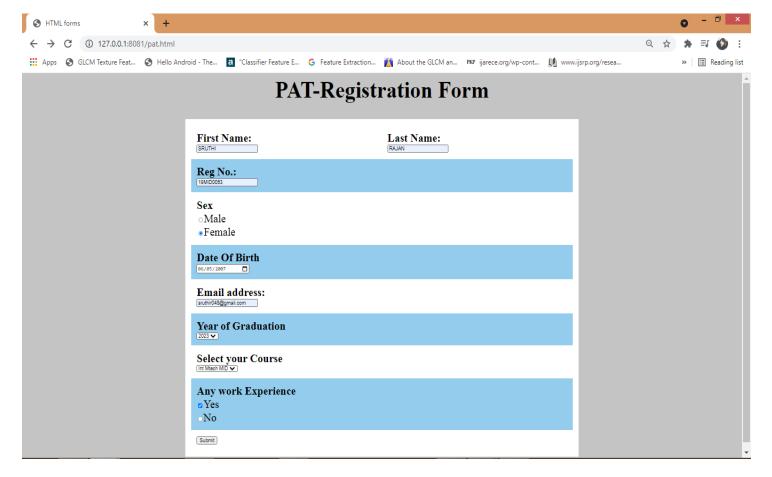
```
        </tr>

    </table>

</center>

</form>

</body>

</html>
```

PAT-Registration Form

First Name: SRUTHI

Last Name: RAJAN

Reg No.: 19MID0053

Sex
○ Male
◉ Female

Date Of Birth
06/05/2007

Email address: sruthir048@gmail.com

Year of Graduation
2023

Select your Course
Int Mtech MID

Any work Experience
☑ Yes
☐ No

Submit

http://127.0.0.1:8081/process_get?first_name=sruthi&last_name=s&regNo=19MID0053&sex=on&mail=sruthi.s2019a%40vitstudent.ac.in&year=2024&Course=Int+Mtech+MID&Work=on

{"first_name":"SRUTHI","last_name":"RAJAN","regNo":"19MID0053","sex":"on","mail":"sruthir048@gmail.com","year":"2023","Course":"Int Mtech MID","Work":"on"}

POST METHOD:

Post.js:

```javascript
var express = require('express');
var bodyParser = require('body-parser');

// Create application/x-www-form-urlencoded parser
var urlencodedParser = bodyParser.urlencoded({ extended: false })

app.use(express.static('public'));
app.get('/pat.html', function (req, res) {
   res.sendFile( __dirname + "/" + "pat.html" );
})

app.post('/process_post', urlencodedParser, function (req, res) {
   // Prepare output in JSON format
   response = {
      first_name:req.body.first_name,
      last_name:req.body.last_name,
      regNo:req.body.regNo,
      sex:req.body.sex,
      dob:req.bodydob,
      mail:req.body.mail,
      year:req.body.year,
      Course:req.body.Course,
      Work:req.body.Work
   };
   console.log(response);
   res.end(JSON.stringify(response));
```

```
})

var server = app.listen(8081, function () {
  var host = server.address().address
  var port = server.address().port


  console.log("Example app listening at http://%s:%s", host, port)
})
```

Pat.html:

```
<html>
<head>
    <title>
    HTML forms
    </title>
<style>
body {
    background-color:rgba(128, 128, 128, 0.459);
    font-size: 20px;
}
h1  {
    color: Black;
    font-size: 60px;
    text-align: center;
}
p   {color: red;}
table,td{
    font-size: 20px;
```

```css
        padding: 15px;


}
table{

        background-color: white;

        border: 0px solid black;

}
td{

        /*border-spacing: 15px;*/

        border: 0px solid black;

        font-size: 30px;


}
tr:hover {background-color: rgba(243, 135, 211, 0.521);}
tr:nth-child(even) {background-color: #93ccec;}
</style>
</head>
```

```html
<body >
<h1>
        PAT-Registration Form</h1>
<center>
    <form action = "http://127.0.0.1:8081/process_post" method = "POST">
        <table style="width:55%;">
                <tr>
                        <td><b>First Name:</b><br>
```

```html
                    <input type="text" placeholder="Enter First Name"
name="first_name">
                </td>
                <td><b>Last Name:</b><br>
                    <input type="text" placeholder="Enter Last Name"
name="last_name">
                </td>


        </tr>
        <tr>
            <td colspan="2">
                <b>Reg No.:</b><br>
                <input type="text" placeholder="Enter Reg No"
name="regNo">
            </td>
        </tr>
        <tr>
            <td colspan="2">
                <b>Sex</b><br>
                <input type="radio" name="sex">Male<br>
                <input type="radio" name="sex">Female
            </td>
        </tr>
        <tr>
            <td colspan="2">
                <b>Date Of Birth</b><br>
                <input type="date" name"dob">
            </td>
```

```html
			</tr>

		<tr>
			<td colspan="2">
				<b>Email address:</b><br>
				<input type="email" placeholder="Enter Email" name="mail"><br>
			</td>
		</tr>
		<tr>
			<td colspan="2">
				<b>Year of Graduation</b><br>
				<select name="year">
				<option value="2021">2021</option>
				<option value="2022" >2022</option>
				<option value="2023" selected>2023</option>
				<option value="2024">2024</option>
				<option value="2025">2025</option>
				</select>
			</td>
		</tr>

		<tr>
		 <td colspan="2">
		   <b>Select your Course</b><br>
		   <select name="Course">
		     <option value="Btech CSE">Btech CSE</option>
```

```html
                        <option value="Int Mtech MID" selected>Int Mtech MID</option>
                        <option value="Int Mtech SE">Int Mtech SE</option>
                        <option value="Btech ECE">Btech ECE</option>
                        <option value="Btech EEE">Btech EEE</option>
                    </select>
                </td>
            </tr>
            <tr>
                <td colspan="2">
                    <b>Any work Experience</b><br>
                    <input type="checkbox" name="Work">Yes<br>
                    <input type="checkbox" name="Work">No
                </td>
            </tr>

            <tr>
                <td colspan="2">
                    <input type="submit"  value="Submit">
                </td>
            </tr>
        </table>
    </center>
</form>
</body>
</html>
```
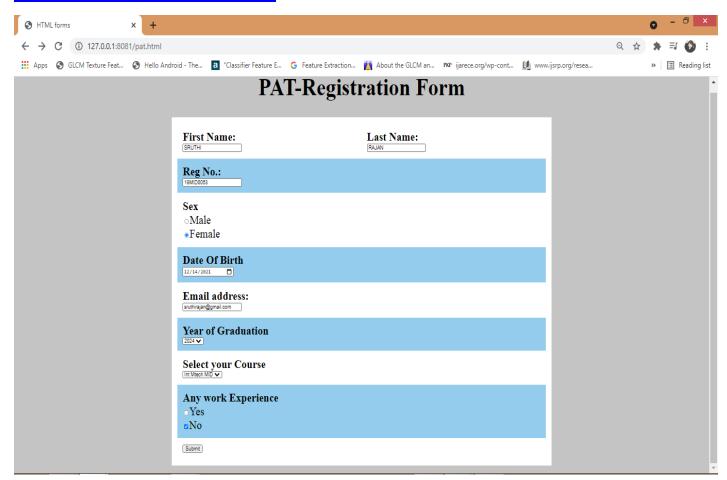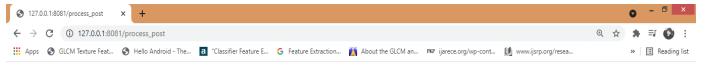
http://127.0.0.1:8081/pat.html

http://127.0.0.1:8081/process_post

{"first_name":"SRUTHI ","last_name":"RAJAN","regNo":"19MID0053","sex":"on","mail":"sruthirajan@gmail.com","year":"2024","Course":"Int Mtech MID","Work":"on"}