**Experiment – 06**

**Aim:** Perform CRUD operations using ExpressJS and MongoDB

**Description:**

1. Check whether nodejs is installed or not:

D:\>node-v

1. Install mongoDB
2. Install express

Eg:D:\expressjs\>

1. Install mongoose using command prompt or visual studios in same folder where express is installed.

>npm install [mongoose@6.9.0](mailto:%20%20mongoose@6.9.0)

PS D:\MEAN\_532\exp6> npm install mongoose@6.9.0

added 113 packages in 13s

5 packages are looking for funding

run `npm fund` for details

**mongoose:**

It is an Object Data Modelling(OBM) library for MongoDB.

5. Save all the programs in the same folder and to run the code:

D:\expressjs\>nodeprogname.js

**connect.js**

var con = require("mongoose");

con.set("strictQuery",false);

con.connect("mongodb://127.0.0.1:27017/passenger")

.then(() =>console.log("Database connected"))

.catch((Error) =>console.log(Error));

**output:**

PS D:\MEAN\_532\exp6> node connect.js

Database connected

**create.js**

var con = require("\mongoose");

con.set("strictQuery",false);

con.connect("mongodb://127.0.0.1:27017/passenger")

.then(() => console.log("Database connected"))

.catch((Error) => console.log(Error));

const passSchema = con.Schema({

Name : String,

Aadhar\_no : Number,

Age : Number,

Gender : String,

Seat\_no : Number,

Travel\_Date : String,

From\_To : String

});

const passData=con.model("passDetails",passSchema);

console.log("Collection created");

**output:**

PS D:\MEAN\_532\exp6> node create.js

Collection created

Database connected

**insert.js**

var con = require("\mongoose");

con.set("strictQuery",false);

con.connect("mongodb://127.0.0.1:27017/passenger")

.then(() => console.log("Database connected"))

.catch((Error) => console.log(Error));

const passSchema = con.Schema({

Name : String,

Aadhar\_no : Number,

Age : Number,

Gender : String,

Seat\_no : Number,

Travel\_Date : String,

From\_To : String

});

const passData=con.model("passDetails",passSchema);

console.log("Collection loaded");

const p1 = new passData({

Name : "Srinu",

Aadhar\_no : 112233445566,

Age : 20,

Gender : "Male",

Seat\_no : 29,

Travel\_Date : "12/07/24",

From\_To : "Gudlavalleru - Guntur"

});

const p2 = new passData({

Name : "Nagendra",

Aadhar\_no : 111133446666,

Age : 20,

Gender : "Male",

Seat\_no : 9,

Travel\_Date : "12/07/24",

From\_To : "Gudlavalleru - Guntur"

});

const p3 = new passData({

Name : "Jaswanth",

Aadhar\_no : 222233447766,

Age : 20,

Gender : "Male",

Seat\_no : 20,

Travel\_Date : "07/07/24",

From\_To : "vuyyuru - Tirupati"

});

p1.save();

p2.save();

p3.save();

console.log("Data Inserted Successfully!");

**output:**

PS D:\MEAN\_532\exp6> node insert.js

Collection loaded

Data Inserted Successfully!

Database connected

**retrieve.js**

var con = require("\mongoose");

con.set("strictQuery",false);

con.connect("mongodb://127.0.0.1:27017/passenger")

.then(() => console.log("Database connected"))

.catch((Error) => console.log(Error));

const passSchema = con.Schema({

Name : String,

Aadhar\_no : Number,

Age : Number,

Gender : String,

Seat\_no : Number,

Travel\_Date : String,

From\_To : String

});

const passData=con.model("passDetails",passSchema);

const passDisplay = async() => {

const d = await passData.find();

console.log(d);

};

passDisplay();

**output:**

PS D:\MEAN\_532\exp6> node retrieve.js

Database connected

[

{

\_id: new ObjectId("65f87f064a8fb9fb59d0556d"),

Name: 'Jaswanth',

Aadhar\_no: 222233447766,

Age: 20,

Gender: 'Male',

Seat\_no: 20,

Travel\_Date: '07/07/24',

From\_To: 'vuyyuru - Tirupati',

\_\_v: 0

},

{

\_id: new ObjectId("65f87f064a8fb9fb59d0556c"),

Name: 'Nagendra',

Aadhar\_no: 111133446666,

Age: 20,

Gender: 'Male',

Seat\_no: 9,

Travel\_Date: '12/07/24',

From\_To: 'Gudlavalleru - Guntur',

\_\_v: 0

},

{

\_id: new ObjectId("65f87f064a8fb9fb59d0556b"),

Name: 'Srinu',

Aadhar\_no: 112233445566,

Age: 20,

Gender: 'Male',

Seat\_no: 29,

Travel\_Date: '12/07/24',

From\_To: 'Gudlavalleru - Guntur',

\_\_v: 0

}

]

**update.js**

var con = require("\mongoose");

con.set("strictQuery",false);

con.connect("mongodb://127.0.0.1:27017/passenger")

.then(() => console.log("Database connected"))

.catch((Error) => console.log(Error));

const passSchema = con.Schema({

Name : String,

Aadhar\_no : Number,

Age : Number,

Gender : String,

Seat\_no : Number,

Travel\_Date : String,

From\_To : String

});

const passData=con.model("passDetails",passSchema);

const passDisplay = async() => {

const d = await passData.updateOne({Name:"Srinu"},{$set:{Age:21}});

console.log(d);

};

passDisplay();

**output:**

PS D:\MEAN\_532\exp6> node update.js

Database connected

{

acknowledged: true,

modifiedCount: 1,

upsertedId: null,

upsertedCount: 0,

matchedCount: 1

}

**delete.js**

var con = require("\mongoose");

con.set("strictQuery",false);

con.connect("mongodb://127.0.0.1:27017/passenger")

.then(() => console.log("Database connected"))

.catch((Error) => console.log(Error));

const passSchema = con.Schema({

Name : String,

Aadhar\_no : Number,

Age : Number,

Gender : String,

Seat\_no : Number,

Travel\_Date : String,

From\_To : String

});

const passData=con.model("passDetails",passSchema);

const passDisplay = async() => {

const d = await passData.deleteOne({Name:"Jaswanth"});

console.log(d);

};

passDisplay();

**output:**

PS D:\MEAN\_532\exp6> node delete.js

Database connected

{ acknowledged: true, deletedCount: 1 }

