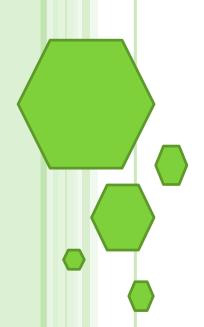


Eng. Niveen Nasr El-Den SD & Gaming CoE.



DAY 3 CONT.

HEAVILY USED MODULES

- Other frameworks that will make it easier using node
 - Express to make things simpler e.g. syntax, DB connections.
 - Jade, Ejs HTML template system (view engines)
 - Socket.IO to create real-time apps
 - Nodemon to monitor Node.js and push change automatically
 - Redis in memory DB
 - MongoDB



EJS

Often used view/templating engine with Express

Express expect to have all its templates in view.

directory

Ejs stands for Embedded javaScript

o ".ejs" should pass to res.render() with required parameters as an object

```
app.set("view engine", "ejs");
app.get("/", function (req, res) {
    res.render("one.ejs", {
        name: "ali", names: names
    })
});
```

```
<!DOCTYPE html>
<html>
<head>
    <title>Untitled Document</title>
</head>
<body>
   <%-include("head.ejs")%>
    <form method="post">
        <input name="name" type="text" />
        <input type="submit"> </form>
    <hr/>
    <l
       <%for (var i=0; i<names.length; i++){%>
           <
               <%= names[i] %>
           <%}%>
                   https://github.com/mde/ejs/
    </body>
                   blob/master/docs/syntax.md
</html>
```

MIDDLEWARE

- Functions show user something goes between the browsers and what we do with data from browsers
- Using of app.use() register a piece of middleware
- Middleware category
 - Third party
 - Custom middleware
 - Built-in
 - Routing function
 - Parameter middleware

https://github.com/senchalabs/connect/wiki

 Requests flow move from up to down and move through middleware as they go down

APPLICATION SETTINGS

- oset()
- get()
- oenable()
- odisable()

```
//application Settings
app.set("view engine","jade");
app.set("views","templates");
app.enable("view cache");
app.enable("case sensitive routing");//disabled by default (/hello !=/Hello)
app.enable("strict routing");//enabled by default (/hello =/hello/)
app.disable("x-powered-by");//enabled by default
```

SOCKET.10

 Websocket is bidirectional communication between browser and server

 Socket-io is front end and backend solution designed for nodejs

• It makes WebSockets and realtime possible in all browsers.



MongoDB

- MongoDB is a NoSQL database system which stores data in the form of BSON documents
- Open source Disk base NoSQL DB
- Great for unstructured data
- Document oriented, group of documents collected in collection
- Uses JavaScript as its Query Language

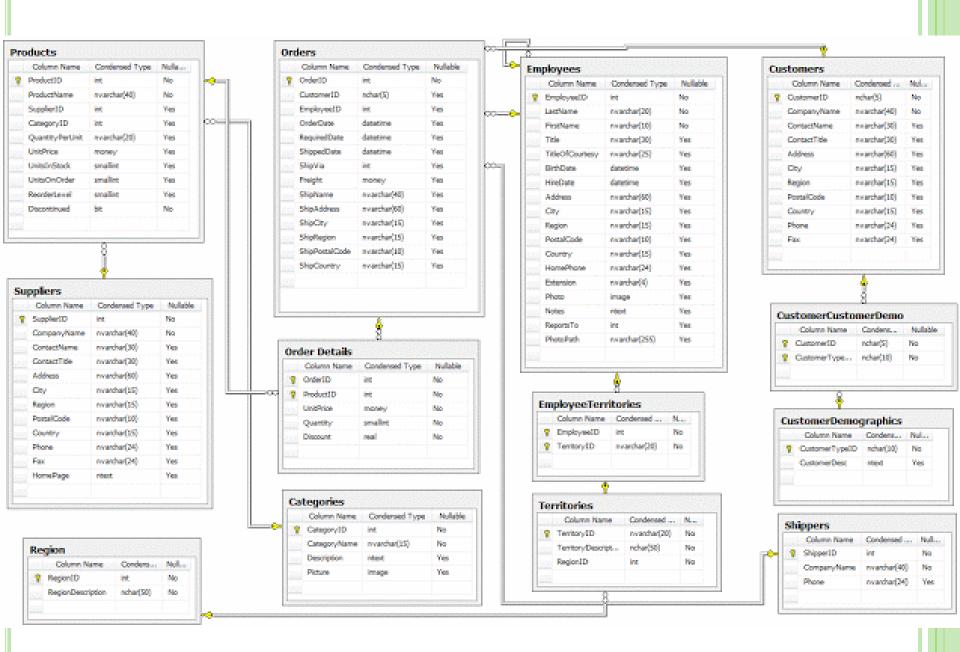


Mongoose

```
var mongoose = require("mongoose");
mongoose.connect('mongodb://localhost:27017/Northwind',{useNewUrlParser:
var northSchema=mongoose.Schema;
var categoriesSchema= new northSchema({
    CategoryID: Number,
    CategoryName: String,
   Desciption: String,
   Picture: String
});
const categories = mongoose.model('categories', categoriesSchema);
var db = mongoose.connection;
db.on('error', console.error.bind(console, 'connection error:'));
db.once('open',function() {
  console.log("connected")
  var c= new categories({
                             CategoryID: 9,
   CategoryName: "newProp",
   Desciption: "test",
   Picture: "ghdwjklq"});
    c.save();
   categories.find((e,d)=>{
    console.log(d)
});
```



NORTHWIND





BONUS ASSIGNMENT

- Ousing Socket.io make a simple chatting application that displays each participant's message with his name.
- Deploy your application

