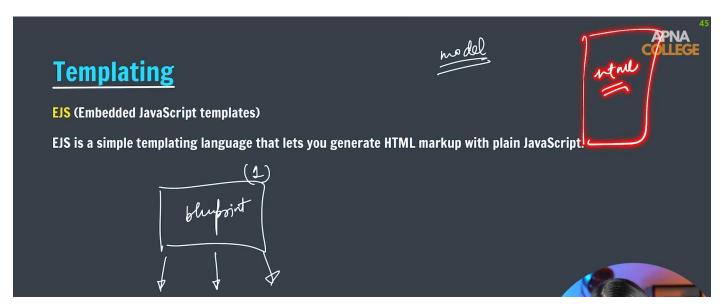
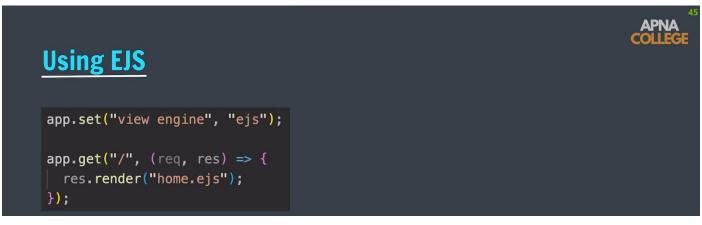
EJS



[shradhakhapra@Shradhas-MacBook-Air]
 EJSdir % npm init -y



```
nodemon] starting `node index.js`
/Users/shradhakhapra/WebDevelopmen
                                              JS index.js X ↔ home.ejs
t/Backend/EJSdir/index.js:9
  res.render("home.ejs";)
                                               JS index.js > 🗇 app.get("/") callback
                                                    const express = require("express");
                                                    const app = express();
SyntaxError: missing ) after argum
ent list
                                                    const port = 8080;
    at Object.compileFunction (nod
                                                    app.set("view engine", "ejs");
                                                     ♣p.get("/", (req, res) ⇒> {
                                                    res.render("home.ejs");
js (node:internal/modules/cjs/load
                                                    app.listen(port, () => {
                                                     console.log(`listening on port ${port}`);
```

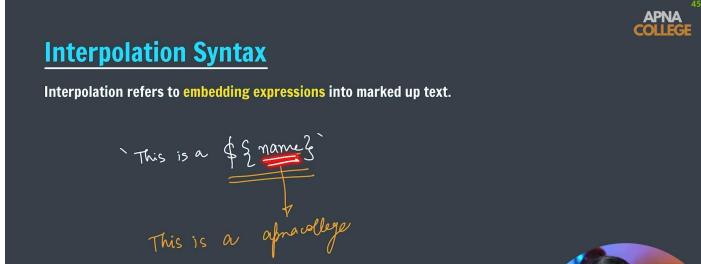
Express by default searches for the views folder and then search for home.ejs inside it. So we need to create folder called views.

Writing .ejs is optional.

Views folder is searched from where we have run our server.

So then home.ejs will not be found if the server is run from outside the folder. So to solve this we have to add these 2 lines in our code.





```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.(</pre>
   <title>Home Page</title>
 </head>
 <body>
   <h1>This is the home page 1 * 2 </h1>
   <h3><%= ["hello", "bonjour", "namaste"][2] %></h3>
     Lorem ipsum dolor sit, amet consectetur adipisicing elit. Unde,
     voluptatibus, recusandae ea laudantium accusamus ab enim necessita
     odit est nisi ut debitis beatae quasi possimus tempora dicta dist
     modi quibusdam.
   <button>click me!</button>
  </body>
</html>
```

<%= whatever you write in between its value is calculated and then printed as HTML string %>

We can write JavaScript inside these tags.

```
app.get("/rolldice", (req, res) => {
    let diceVal = Math.floor(Math.random() * 6) + 1;
    res.render("rolldice.ejs", { num: diceVal });
});
```

This can also be written as

```
app.get("/rolldice", (req, res) => {
  let diceVal = Math.floor(Math.random() * 6) + 1;
  res.render("rolldice.ejs", { diceVal });
});
```

We send the diceVal as an object to that file where we can access it.

Conditional Statements in EJS

Adding conditions inside EJS

```
<% if(diceVal == 6) { %>
<h2>Nice! Roll dice again.</h2>
<% } %>
```

Loops in **EJS**

```
<% for(user of followers) { %>
<%= user %>
<% } %>
```

Instagram page with EJS

const instaData = require("./data.json");

APNA COLLEGE

APNA COLLEGE

```
comments: 19

∠ EJSdir

⇔ instagram.eis 
● JS index.is

      image: 'https://images.unspl
ash.com/photo-1577023311546-cdc07a
                                                 views > ⇔ instagram.ejs > ⇔ html > ⇔ body > ⇔ ?
8454d9?ixlib=rb-4.0.3&ixid=M3wxMjA
                                                           <meta name="viewport" content="width=device-width, initial-scale=1.</pre>
3fDB8MHxzZWFyY2h8Nnx8Y2F0c3x1bnwwf
                                                           <title>Instagram</title>
HwwfHx8MA%3D%3D&auto=format&fit=cr
op&w=800&q=60',
likes: 1065,
                                                           <h2>This page belongs to @<%= data.name %></h2>
      comments: 200
                                                           <button>Follow</putton>
                                                            <button>Message</putton>
                                          딚
                                                             Followers : <= data.followers >> &nbsp;&nbsp;&nbsp; &nbsp; Follow
 name: 'dogs',
followers: 75000,
                                                             data.following %>
  following: 150,
 posts: [
      image: 'https://images.unspl
                                                           <% for(let post of data.pos (%s) { %>
ash.com/photo-1598133894008-61f7fd
                                                           <img src="<%= post.image %>" alt="some img" />
b8cc3a?ixlib=rb-4.0.3&ixid=M3wxMjA
                                                             Likes : <= post.likes %> &nbsp;&nbsp;&nbsp;&nbsp
HwwfHx8MA%3D%3D&auto=format&fit=cr
                                                             post.comments %>
op&w=800&q=60',
likes: 3000,
                                                           <% } %>
      comments: 41
      image: 'https://images.unspl
```

```
app.get("/ig/:username", (req, res) => {
  let { username } = req.params;
  const instaData = require("./data.json");
  const data = InstaData[username];
  if (data) {
    res.render("instagram.ejs", { data });
  } else {
    res.render("error.ejs");
}
});
```

Includes ___ subtemplates

APNA COLLEGE

<%- include("includes/head.ejs"); %>

```
adhakhapra@Shradhas-MacBook-Air
 EJSdir % nodemon index.js
[nodemon] 3.0.1
                                                       instagram.ejs X <> error.ejs
                                               (D)
[nodemon] to restart at any time,
                                                       views > \Leftrightarrow instagram.ejs > \Leftrightarrow ? > \Leftrightarrow body > \Leftrightarrow ? > \Leftrightarrow ? > \Leftrightarrow ?
[nodemon] watching path(s): *.*
                                                                   <button>Message</putton>
[nodemon] watching extensions: js,
mjs,cjs,json
[nodemon] starting `node index.js`
listening on port 8080
                                                                     Followers : <= data.followers %> &nbsp;&nbsp;&nbsp; &nbsp; Follow
                                                                     data.following %>
                                                                   <% for(let post of data.posts) { %>
                                               <img src="<%= post.image %>" alt="some img" />
                                                                     Likes : <= post.likes %> &nbsp;&nbsp;&nbsp; comments : <=
                                                                     post.comments %>
                                                                   <%- include("includes/footer.ejs") %>
                                                                 <script src="/app.js"></script>
```

```
Serving Static Files

app.use(express.static(folder_name))

app.use(express.static(path.join(__dirname, "public")));
```

When we want to send css and js along with html as response.

We should have a folder by the name public for serving static files just like we have views folder for templates.

```
const btns = document.querySelectorAll("button");

for (btn of btns) {
   btn.addEventListener("click", () => {
      console.log("button was clicked");
   });
}
```

```
app.use(express.static(path.join(__dirname, "/public/js")));
app.use(express.static(path.join(__dirname, "/public/c&s")));
app.set("view engine", "ejs");
app.set("views", path.join(__dirname, "/views"));
```

GET vs POST



In get request when we submit the data we can see the data as query string in the URL while in POST we do not see the data submitted and it is sent as the body.

Browsers have a limit on the size of the URL they can show and also showing data in the url is not safe.

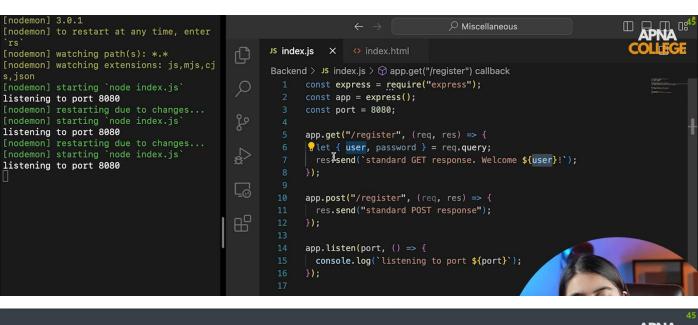
By POST method we can send data of any type format like string, json etc.

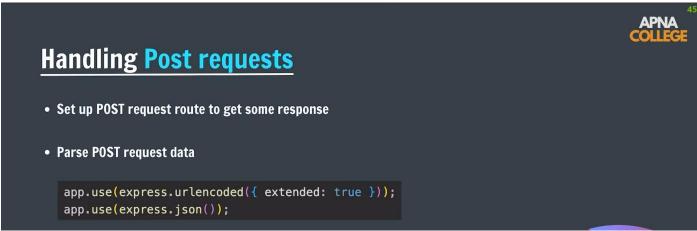
```
∠ Miscellaneous

[nodemon] to restart at any time, enter
                                                    JS index.js
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cj
                                                    Backend > JS index.js > ...
                                                      const express = require("express");
[nodemon] starting `node index.js`
                                                          const app = express();
listening to port 8080
[nodemon] restarting due to changes...
                                                           const port = 8080;
listening to port 8080
                                                          app.get("/register", (req, res) => {
                                                            res.send("standard GET response");
                                                           app.post("/register", (req, res) => {
                                             res.send("standard POST response");
                                                           app.listen(port, () => {
                                                            console.log(`listening to port ${port}`);
```

```
o index.html ×
                                                         JS index.js
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cj
                                                         Frontend \rangle \Leftrightarrow \text{index.html} \rangle \bigotimes \text{html} \rangle \bigotimes \text{body} \rangle \bigotimes \text{form}
                                                                <!DOCTYPE html>
[nodemon] starting
listening to port 8080
                                                                 <html lang="en">
[nodemon] restarting due to changes...
[nodemon] starting `node index.js`
                                                                    <meta charset="UTF-8" />
listening to port 8080
                                                                     <meta name="viewport" content="width=device-width, initial-scale</pre>
                                                                     <title>GET & POST Requests</title>
                                                                     <h3>GET Request Form</h3>
                                                  <form method="get" action="http://localhost:8080/register">
                                                                      <input placeholder="enter username" name="user" type="text" />
                                                                       <input placeholder="enter password" name="password" type="pass"</pre>
                                                                       <button>Submit
                                                                     <h3>POST Request Form</h3>
                                                                     <form method="post" action="http://localhost:8080/register">
                                                                      <input placeholder="enter username" name="user" type="text" />
                                                                       <input placeholder="enter password" name="password" type="password"</pre>
                                                                       <button>Submit
```

This is how you take that data out.





If we are sending the data in json format then we have to write the second line.

```
Backend > Js index.js > ...
      const express = require("express");
      const app = express();
      const port = 8080;
      app.use(express.urlencoded({ extended: true }));
      app.get("/register", (req, res) => {
        let { user, password } = req.query;
         res.send('standard GET response. Welcome ${user}!');
       });
 11
       app.post("/register", (req, res) => {
 12
 13
        console.log(req.body);
        res.send("standard POST response");
 14
 15
       });
      app.listen(port, () => {
 17
       console.log(`listening to port ${port}`)
       });
 20
```

The line 13 will print undefined if you don't write the 5th line.

The 5th line is a use function which caters all types of requests and it uses a middleware in it which is used to decode the data being received for express to read it and print it. So we have to include this line always.

We cant read req.body because we have to specify which type of data we are trying to parse and then only we can read it. That is why it was showing undefined.