6.	Node	Templating - EJS	41	
		interpolation syntax,		ejs-mate
		data pass, static files.		(57)
		sub-templates-includes		
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	TOWN TO THE			

classmate

6. Templating - EJS

- EJS: Embedded Javascript templates
- -> EJS is a simple templating language that lets you generate HTML markup with plain Javascript

eg In Terminal

- HP@DP MENGW64 ~/ Desktop / domo / EJSdir
 - \$ npm init -> this flag used for setting default values in package. is on

 Many created you can change its values if you want
- \$ npm install express
- \$ npm install ejs
- \$ \$ touch index. is
- \$ code index.js

total ...

- \$ ls -la

... package-lock.json

... : (package json)

··· index.js

... ("2) / "Shipps waiv"

In index.js 1 East Embedde talk Slatted const express = require("express"); const app = express(); const post = 8080; app. listen (post, () =) { console. log(App is listening on port \$ [port }); 3); alter I sout I poster in a such the state same to the state and the state of In Terminal 22 mgx Hoteni mgm > - \$ nodemon index.js As their more 4 App is listening on post 8080 \$ 18 touch index is \$ code index. is Append in index.js app. set ("view engine", "ejs"); app. get ("/", (neg, nes) => { ses. sender ("home. ejs"); You can also write only "home" without

clinguato

- ⇒ In Essdir folder, make a new tolder named "views"
- > By default, express require "ejs" automatically
- By default, express searches for "views" named folder to run "render", function
- → We will make our ejs file, is in this folder.

In demo/ Edsdin/ views / home.ejs

all values of the Alaska A

- <! DOCTYPE html>
<html lang="en">

<ht>> This is home page</ht>
</br>
</body>

In Browser

- URL : localhost: 2020

output will be as per "home ejs" file

=) This is home page

* views directory -> We can start server from parent directory, u below: Sell Forth (Charles and Second A THE THE PARTY OF - HP@DP MINGW64 ~/ Desktop / demo * nodemon essdir/index.js STATE OF THE SET SHE SEE STATE OF THE STATE OF S -> NOW, as per above command sexpress cannot locate "views" tolder, so we have to set path of "views" folder. KINDSCITTE ABOVE (Lynty > (Ald) Append in index is Christs - const path = require("path"); app. set ("views", path.join(--disname, "/views")); - NOW, it will work same as before. up localkest: 3020

The transfer of the state of the state of

The sale and the sale of the s

- * Interpolation Syntax
- Interpolation refers to embedding expressions into marked up text. (Just like string literals, we can write variable inside a string)
- → With the use of this, we can write is inside (inbetween) html syntax. (making ejs dynamic)
- → visit ejs.co website, scroll down to Tags section
 - 'Scriptlet' tag, for control-flow, no output <0/0 'Whitespace 'sluxping' scriptlet tag, strips all <1/0_ whitespace before it
 - Outputs the value into the template <90= (HTML escaped) (output in string)
 - Outputs the unescaped value into the <0/0template
 - (%) # Comment tag, no execution, no output <10.10 Outputs a literal '(10)
 - Plain ending tag 1.>
 - Trim-mode ('newline slurp') tag, trims -0/0> following new line
 - 'Whitespace slupping' ending tag, removes all -1.7 white space after it

```
add In views/home.ejs
         2.9.
                                                                                 THE PERSON NAMED OF THE PE
THE RESIDENCE OF THE PARTY OF T
       <body>
                                                 <h1> This is home page </h1>
                                              < h3> <0/0= 1+2 %> </ h3>
                                              < h3> <10 = "apracollege" to Upper (ase () 1/0> </h3>
                                             < h3> </1= ["one", "two"][1] 1/0> </h3>
                                                                                                                   a vicit ciscos constante assession tinto
         4body>
          Whtml?
                                                                                           profiled to the test selection
```

output on : This is home page 0/13 Web page 3 APNACOLLEGE II do two ! I show that)

receipt as upay had a had a medit to the state

0/0>

- 3 2

* Passing Data to EJS es add In index is - app. get ("/nolldice", (neg, nes) =) { : let num = Math. floor (Math. random () + 6) + 1 ; nes. render ("rollDice.ejs", { diceval: num }); to need to wake 好; o variable. see next page: In Essdir/views/rollDice.ejs - <! DOCTYPE html> < html ... > < body > = (1) <h1> Your Dice gave value: <10= diceval 1.7 </h1> <1 body> </html> In BROWSER Strap 1 1 1 0 specifically - URL = localhost: 8080/2011dice Output: Your Dice gave value: 5 refresh Your Dice gave value: 1

eg add in index. is at also probable - app. get ("/ig/: username", (reg, nes) => { let { username } = req. params; res. render ("instagram.ejs", & username }); 3); Control of the state of the sta In Essdial views / instagram. ejs - < ! DOCTYPE html > STOURS LIVERS < html ... > - Tones < body> < hI> This page belongs to @ <10= username 1.7</h </body> K/html > (Looder School S. A. In Browser URL = localhost: 2030/19/parth JRH = Local Local : 2020/201/4 [c Output: This page belongs to @ parth to the state of the state of

* Conditional Statements in EJS <h2> NIce! Roll Dice again <1h2> 4.10 } 0/0> -> In conditional statements, wrap it with tags of ejs without wrapping html markup 213 m stor hozt # * Loops in EJS In index.js - app. get('/ig/:username", (reg, res) => { let { username } = req. params; const followers = ["name1", "name2", "name3"]; Res. Render ("instagram. ejs", Eusername, followers ?); 3); In Essdia/ views/ instagram. ejs - < h1 > This page belongs to @ < %= username 10> </ h1> < h37 Accounts that follows you: \$1 h3> for (let name of followers) { '1.> <117 41.= name 1.> </11> 4.1. 3 1/.>

<1 ul7

- URL = localhost: 2020/ig/italiza

Output: This page belongs to @italiya Accounts that follows you:

· name1

· name 2

* ISON Data in EJS

-> We have a json file which has some, data and it is stored at Essdir/data.json

Make a factor serionery disorbity to

→ e.g. A simple instagram page, we get data from json file and set it in ejs file

In data json

"name": "cats",

"followers": 25000,

"following": 5,

"posts": [

"likes": 200, 500

< 1013

3. "comments": 17

```
1 ... }
              { ... }
       "name": "doss",
       "followers": 75000,
       "following": 150,
       "posts": [
      ( In index.js
app. get ("/ig/: username", (req, res) => {
   let { username } = Req. params;
    const instaData = sequise ("./data; son");
    const data = instaData[username];
    if (data) {
    ses sender ("instagramejs", { data });
    i else i
        nes. gender ("error. ejs");
                                   5 3/5
3);
```

In views/egrofiejs

< h1> No such Account </ h1>:

In views/instagram.ejs

< h1> This page belongs to @ <0/0 = data. name 10> </h1>

button> follow </button>

button> message </button>

followers:
following:
data. following:

< h9. >

290 for (let post of data.posts) { 1/0>

<img sac = "<1/0 = post. image 10>" >

Comments: <1/>
comments: <1/>

1/9>

Talking V Lamerel

In Browser is the grives :

- URL = localhost: 2020/ig/cats

Output: As per instagram ejs page where username =cats

- URL = localhost: 2080/ig/parth

: Output: No such Account as per ennon. gs

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3 Constitut to notiful tenso) as

(C) 2011 202 (C) 12 (C)

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220. 21yte V 72. V 311.00 \ait.213 .cf

```
* Serving Static Files
 named "public" in "Ess dir folder and stone Hles of "css" and "js" respective folders.
              In Essdir/public/js/app.js
 - let buttons = document. queryselectorAll ("button");
    for (const button of buttons) {
         button, add Event Listener ("click", () => {
            alest ("Button was clicked");
        3);
             In Essdir/ public /cis / style.css
- body ¿
    background-colon: aqua;
  img l
   width: 100px;
```

```
In EJSdir/index.js
- const express = require('express");
   const app = express ();
   const path = require("path");
  const port = 8020;
   app. listen (post post, () => {
        console. log('App is listening on post $ { post } );
-> app. use (express. static (path. join (-- dianame, "/public/js")));
- app. use (express. static (path. join ( -- disname, "/public/css")));
   OR He starts server from Essdir them I ; If we start server from domo then I
-> app. use (express. static ("/public/js"));
- app. use (express static ("/public/css"));
  app. set ("view engine", "ejs");
  app. set ("views", path. join (--digname, "/views"));
    as per previous examples... page: 51
                 In views/instagram.ejs
   In head element > < link rel="stylesheet" haref="/style.css">
   body elements as per page: 52 & at the this script tag
```

> < script SRC = "/app.js"> </script>

just above end tag of body

	Sub Templates (includes) (partials)
•	We have made home ejs, error ejs, instagram now, in these files we have written some code blocks same (similar).
	These similar code blocks, we will remove from these files and store it in only only file, and we will call it sub templates.
(3)	In main ejs files we will only write one line at appropriate place
	eg <%- include ("includes/head.ejs"); .10>.
	e.g. In EJSdir/views/includes/footer.ejs
	< footen> This is boten <1 boten>
: ((In EJsdia/views/includes/head.ejs.
	head
	(meta)
	(meta)
_	Thead? Home Page (/title>
	AND
	Shipport of the State of the St
	Ktuines V Colored to Colored

In Essdir/ views / home.ejs

- <! DOCTYPE html> < html ... lang="en">
 - (1. include ("includes/head.ejs"); 1.7
 - <body>
 <h1 > This is home page </h1>
 - (10 include ("includes/footer.ejs"); 10)

and "Dry man I had

</body>

In Essdia / views / earon ejs

- h1> No such Account h1>
 - 20/0- include ("includes/footer.ejs"); 1/07
- * ejs-mate package
- npm i ejs-mate
- const ejs Mate = require ("ejs-mate");
 app.engine ("ejs", ejs Mate);

P.T.O. ->

> boileaplate.ejs	
- <html></html>	Street World Street
< head>	
< body>	instead of ht you can instead of nations. gis
<hi> Something </hi>	Alam Delegant - No
<div boiles="" class="contain</td><td>ner'></td></tr><tr><td><%- body</td><td></td></tr><tr><td></div > </div ></td><td>this is vasiable</td></tr><tr><td>(11-10)</td><td>of all other eys files</td></tr><tr><td></html></td><td>include footen.g's</td></tr><tr><td></td><td>- 0/1</td></tr><tr><td>> home.ejs</td><td></td></tr><tr><td></td><td>1 that</td></tr><tr><td>- <% (avout (" plate<="" td=""><td>The state of the s</td></div>	The state of the s
- (% layout "boileaplate	2) %
<body></body>	
	A STATE OF
This is the body of	home
4/body>	Carlot Anna Anna Anna Anna Anna Anna Anna Ann
KINIZ IN	KAIN NO SKEET ALLSA
new.ejs	Kys- (neighe Chine
<% layout ("boilesplate	247
CONTROL OF THE PROPERTY OF THE PARTY OF THE	
5 Lodus	ejs-nute paikage
< body>	
This is the body of	new to ment to the second
<160dy>	
	SELECTION OF THE SELECTION
	The second secon

7. GET & POST Requests

- GET = Used to get some Response = Data sent in query strings, which is
 - limited, is string data & is visible in urt.
- > post = Used to post something (for create/write/
 - = Data sent via request body which can be of any type.

e.g. 1 In demo/Misc/Frontend/index.html

- <! DOCTYPE html >
 - < html Lang = "en">
 - chead >
 - (meta charset="UTF-8">
 - < meta name = "viewport"
 - content="width=device-width, initial-scale=1.0">

timedia" = com futinel >

- (title) GET & POST request </title>
- <1 head>
- < body>

< h3> GET Request FORM </ h3>

< form action = "/register" method = "get" >

// cinput type = "text"
placeholder = "enter username"
name = "username" >

4 har

< h3> POST Request Form </h>
</h>

 \(\text{form action} = \('\text{register method} = \('\text{post}'' \)

Comment of the Comment

rame = "username" >

<input type="password"

placeholder="enter password";

name="password";
</pre>

(button type="submit"> POST Register (1 button)

antimolitie project

</form>

</body > </ html >

ment

58N2

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220 mg x Med 2 mi legger & -

& teles indusig

i what show &

In Browser

- URL= 127.0:0:1:5500 (live server of us code)
 - enter username = abc
 - enter password = 123
 - click on "GET Register" button

Output: URL = 127.0.0.1:5500/register? username = abck
password = 123

on webpage = Cannot GET /register

- URL = 127.0.0.1:5500
 - enter username = abcd
 - enter password = 1234
 - click on "POST register" button

All total to the month of the part of the contract of

on Webpage = This page isn't working right now.

4 6 1) 400 1 100 1490

Default error page of browser

In Misc/Backend Terminal 29.2 - HP@DP MINGW64 ~/ Desktop / Misc / Backend \$ npm init -y sale a security -Teni a brazza satro output: package. json file will be created in Backend fother. You can update value of the key's such as "author", ... - \$ npm install express - \$ touch index.js - URL = 127 D.O. 1:5500 ... - \$ code index. is to the state of th as on a line 1779 Rodus mother "estated Trop" no stills -In Misc/Backond / index.js - const express = require ("express"); const app = express (); const port = 8080; app. listen (post, (1 =) { console. log & App is listening on port \$ 1 ports);

app. get ("/ register", (reg, res) =) i.

res. send ("This is GET easponse");

3);

app. post ("/ register", (reg, res) => i

res. send ("This is post response");

3);

In Terminal

- \$ nodemon index.js:

App is listening on post 8080

In Browser (hoppscotch.io)

- HTTP verb = GET

URL = http:// Localhost: 2020 / segister

Dutput in : This is GET response

Pesponse body

- HTTP veab = POST

URL = http:// localhost: 8080 / Register

Output in : This is POST perponse Response body

* Access data of GET request Committee to be the second of the second From as 1 @ est. In Misc / Frontend / index. html - Replace = action = "/register"
with = action = "http://localhost: 8080./ register" In Misc | Backend / index.js - app. get ("/ register", (seg, ses) =) { let { username, password } = req. query; 3); send (This is GET Response, Welcome @\$ & username!) THE THEY THE In Browser and the Man Angel - URL = 127.0.0.1:5500 - onter username = abc - enter password = 123 - click on "GET Register" button acting A obox : Rullingel Magita's IND Output: URL=http:// localhost: 8080/803 ister! wername about password = 123 on Webpage: This is wet response, Welcome @abc

* Access data of POST request From eg 1 @ eg 2 @ page 64 eg In Misc / Frontend / index. html - We have alkeady seplaced value of action attribute add In Misc / Backend / index.js - app. use (express. unlencoded (l'extended: true })); app. post ("/register", (reg. g. res)) => 12 mis let { username, password } = req. body; res. send (This is post response, Welcome @\${username}); In Browser - URL = 127. 0.0.1: 5500 - enter wername = abod - enter password = 1234 - click on "POST Register" button Output: URL = http:// localhost: 8080/ reguter

on webpage: This is post response, welcome @abod

* Access ISON data of POST Request A. From e.g. 1 @ eg. 2 @ page 64 k 65 e.g. add In Misc / Backenel / index. is - app. use (express. ison ()); In Browser - (Hoppscotch. io) HTTP VERb = POST URL := http:// localhost: 8020/ Register ... Body tab > Content Type = application / ison Raw Request Window = { "use mame": "parth", password": "123" 3 70 Sweetsle 2 10000 T258 1 3 178 1 1000 7 208 Output in : This is post response, Welcome @parth Response Body

- * Data sent to Post as Object
- < form> <input name = "listing [username]" >
 <input name = "listing [password]" >

 - 4form>
- let newlisting = Req. body. listing;
 - use sname: "abcd",
 - password: " 123abcd"