html	Jednostavni:	ZI			
<html lang="en"></html>	* => sve	rem -> u odnosu na root	(default je 16px)		
<head></head>	h1, li => svi h1 ili li	em -> u odnosu na rodite	elja		
<meta charset="utf-8"/>	li.c1 => svi li s klasom c1	<div style="font-size: 30p</td><td>x;"></div>			
<meta <="" name="viewport" td=""/> <td>Atributni:</td> <td><span style="font-size</td><td></td></tr><tr><td>content=" width="device-width,</td"><td>li[id="z2"] => svi li s id=z2</td><td></td><td>e: 1rem;">rem</td></td>	Atributni:	<span style="font-size</td><td></td></tr><tr><td>content=" width="device-width,</td"><td>li[id="z2"] => svi li s id=z2</td><td></td><td>e: 1rem;">rem</td>	li[id="z2"] => svi li s id=z2		e: 1rem;">rem
•	Kombinirani:	em=30px, re</td <td>•</td>	•		
initial-scale=1.0">	div span => svi span unutar div	em=30px, re</td <td>:III=16px></td>	:III=16px>		
k rel="stylesheet" type="text/css"	<u> </u>	1.			
href="styles/main.css">	div > span => neposredna djeca span roditelja o	11V			
<script src="scripts/main.js"></script>	div+span => prvi span nakon diva, ista razina				
	div~span => isto kao +, ali sve elemente nakon	diva iste razine			
<body></body>	Pseudoklasa:				
	div:hover => na hover misa				
	li:first-child => li koji je prvo dijete roditelja				
<figure><img <="" height="300px" src="slika.jpg" td=""/><td>input:required => svi required inputi</td><td></td><td></td></figure>	input:required => svi required inputi				
alt="Opis">					
-> red, -> stupac	Pseudoelementi:				
fer	p::before, p::after {content: "\"";} => ubaci " prijo	p::before, p::after {content: "\"";} => ubaci " prije i poslije paragrafa			
poglavlje	p::first-letter				
<h3 id="b2">Skoci na ovo poglavnje</h3>	p::first-line				
<hr/> <hr/> horz crta	p::selection => dio elementa koji je odabrao koj	risnik			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	inline => 1000				
<form action="/processForm.php" method="GET" target="_self"></form>	#id => 100				
target: self unutar istog, blank unutar novog					
<label< a="">>Korisnicko ime: <input <="" td="" type="text"/><td>.class, :pseudo-class, [attribute] => 10</td><td></td><td></td></label<>	.class, :pseudo-class, [attribute] => 10				
name="username" value="enter your username"	<tag>, ::pseudo-element => 1</tag>				
	<body>, * => 0</body>				
size="30"> 	border: inherit => uzmi od roditelja				
<label>Lozinka: <input <="" td="" type="password"/><td>border: initial => iskljuci sve, uzmi od browsera</td><td>a</td><td></td></label>	border: initial => iskljuci sve, uzmi od browsera	a			
name="password"	border: unset => inherit ako ima matching valu				
maxlength="30" required> 	neki css elementi:				
<label>Skriven input <input hidden="" readonly="" type="text"/></label>		ado.itali a			
, , , ,	font-family, font-weight:bold, font-size, font-st	yie:italic,			
<fieldset> <!-- radio-button ---> izbor jednog></fieldset>	text-decoration:underline/none	_			
, ,	text-align, text-indent, letter-spacing, line-heigh	nt			
<legend>Uloga</legend>	background-image: url('./images/x.jpg'),				
<label><input <="" name="role" td="" type="radio"/><td>background- color: green</td><td>**********</td><td>******</td></label>	background- color: green	**********	******		
value="admin">Administrator 	background-repeat: no-repeat, repeat	arr4 = arr3.slice(1,3); //indexi od 0, 1	alament 2 alament 3 na		
<input checked="" id="user" name="role" type="radio" value="user"/>	box-sizing: border-box				
<label for="user">Korisnik</label>	display: block/inline/inline-block	console.log(arr4.includes(6)); //vraca			
		<pre>arr.sort(function(a,b){return b - a});</pre>	// sort sa komparatorom		
<fieldset> <!-- checkbox ---> bilo koji broj></fieldset>	padding, border, margin	(desc)			
<pre><legend>Dodatne opcije</legend></pre>	margin:auto => centriranje	arr.reverse();			
0 1 / 0	max-width, width, vw, vh, vmin, vmax	arrEven = arr.filter((x) => x%2 == 0);			
<label><input <="" td="" type="checkbox"/><td>position: relative/absolute/fixed</td><td>for (let element of arr) {console.log(el</td><td>lement):} // elementi</td></label>	position: relative/absolute/fixed	for (let element of arr) {console.log(el	lement):} // elementi		
name="stakla" value="da" checked>Stakla 	Važniji globalni atributi: id,class,	for (let index in arr) {console.log(inde			
<label><input <="" td="" type="checkbox"/><td>lang,title,style</td><td>// classes, objects \\</td><td>ex/s) // indexor</td></label>	lang,title,style	// classes, objects \\	ex/s) // indexor		
name="felge" value="da">Felge	3. 7 7	•			
	**************************************	class Person {			
<select name="padajuca_lista" size="1"></select>)0 1411	lastName = "Doe";			
multiple za selectanje vise	100 5 1	age = 50;			
<pre><option selected="" value="opcija">Opcija</option></pre>	var x = 123e-5; let y = "string";	constructor(firstNameValue) {this	s.firstName =		
	const z = 'string';	firstNameValue;}			
<pre><option value="opcija">Opcija2</option></pre>	// "1"+'2'="12", Number(1)+Number(2)=3	get lastName() {return this.lastNa	me:}		
 	let $\exp = 2^{**}3 // 2^3 = 8$	set lastName(newLastName) {this			
<input type="submit" value="Submit"/>	// strings \\	newLastName}	.iastranic –		
<input type="reset" value="Odustani"/>	let $s = \text{"he said: } \'xd\''';$	neweasuvanie;			
	let len = s.length;	}			
</td <td>let index = s.indexOf("xd"); // .lastIndexOf()</td> <td><pre>let person1 = new Person("John");</pre></td> <td></td>	let index = s.indexOf("xd"); // .lastIndexOf()	<pre>let person1 = new Person("John");</pre>			
greske kodiranja sadrzaja:		person1.lastName = "Williams";			
ponovljeno ime elementa, atribut disabled, atribut nije definiran	let newString = s.slice(1,2); // [od,do),e	person1.firstName = "Jake";			
application/x-www-form-urlencoded -> cust=Pero+Peri%C4	<pre>let numToString = (123).toString();</pre>	for (let value of Object.values(person	1)) {console.log(value)}		
==	<pre>let stringToNum = Number(numToString);</pre>	// try-catch \\			
text/plain -> za developere -> cust=Pero address=Ulica	// functions \\	try {	- 1		
>	function f1(x="default value") {	throw "error":	Booelan		
Korisnicko ime: enter your username	console.log(x);	} catch(err) {	(undef,null,NaN,0,"")		
Lozinka:	}	, , , ,	=false		
Skriven input	let f2 = function(x) {console.log(x);}	console.log(err);	Number(
Uloga		} finally {	null,false=0		
O Administrator	let $f3 = (x) => console.log(x);$	$var x = 2; \}$	undefined=NaN		
Korisnik	// arrays \\		true=1)		
	let arr = [1,2,3,5,6,1,7,8];	lat mana maris Man().	*		
Dodatne opcije	let last = arr.pop(); // makne i returna zadnji	mana sat('mila' 'sar').	null===undef false		
✓ Stakla	arr.push(4); // append na kraj	mapa.get('mil') //undefined	null==undef true		
☐ Felge	let first = arr.shift(); // makne i returna prvi				
Opcija 🗸	arr.unshift(5); // ubaci na pocetak	mapa.has("mile");			
Submit Odustani	arr.splice(1,2); // brise 2 elementa od indeksa 1	mapa.delete("mile");			
Submit Oddstanii	let arr2 = $[6, 7]$;	mapa.clear()	•		
by Aux, Spike, Krampert			1		
o, mas, opine, mainpert	let arr3 = arr.concat(arr); // spoji				

```
Primjena HTTP - Cloud Computing, Rest, www, WOT
setTimeout( () => console.log(3), 3000); // nakon 3s
                                                                                   URI - uniformni (struktura zapisa)
let promise = new Promise( (resolve, reject) => {
                                                                                              - identifikator (infromacija koja omogucuju razlikovanje resursa)
          setTimeout(() => {
          console.log("nakon 3 sekunde...");
                                                                                              - resurs (informacijski izvor)
                                                                                   URL, URN - podskup od URI
           if (false) {
                                                                                   URN -jedinstvenost i trajnost identifikacije
              resolve("dobro izvrsen");
                                                                                              pr. urn:ietf:rfc:2616
           } else {
                                                                                   URL - sadrzi informaciju o lokaciji
             reject("lose izvrsen");
                                                                                              pr. http://www.ietf.org/rfc/rfc.txt
          },
                                                                                   Primjeri URI-a (http://www.ietf.org/rfc/rfc2396.txt,mailto:John.Doe@example.com
          3000);
                                                                                                                              --> apsolutni (puno ime web adrese,www.fer.hr)
});
                                                                                                                              --> relativni (skraceno, npr localhost)
promise.then(
 function(result) {console.log(result);},
                                                                                              Analiza URI-a
 // ako resolve, result = "dobro izvrsen"
                                                                                   http:{shema,nacin pristupa resursu(HTTP)}//www.fer.unizg.hr{host name(ip adresa ili ime)}/
 function(error) {console.log(error);}
                                                                                                                              |gdje|
 // ako reject, result = "lose izvrsen"
                                                                                   predmet/rppzwpu{put resursa}
                                                                                      sto se dohvaca
);
                                                                                   shema:(http,ftp,urn,file)// <autoritet> <put {/predmet}> ? <upit {web=prag}> {put,upit isto
promise.catch(
                                                                                   neobavezno}
 function(error) {console.log(error);}// samo ako reject
                                                                                   pr. http://www.google.com:81/search?q=web{html#b3 -> skakanje po poglavljima}
                                                                                   <a href="../djelatnost/nastava/intstv.html>Internet stvari </a> (popni se na folder vise, spusti na
promise.catch(
          function(error){console.log(error);}
                                                                                   djelatnost/nastava/, otvori intstv.html
).then(
          function(result){console.log("Resolve:"+result)},
                                                                                                         Poruke HTTP
          function(result){console.log("Reject:"+result)}
                                                                                   request
                                                                                                                              reply
                                                                                                                   HTTP 1.1 200 OK Pocetni redak
    // catch ce uhvatit error, u then se ce pozvat prva funkcija s result = undefined
                                                                                   Get /pred/web HTTP 1.0
                               //Fetch\\
                                                                                                                       Content-type Zaglavlja
let promise2 = fetch("https://web1lab2.azurewebsites.net/products?categoryId=1");
                                                                                   ...
                                                                                                                              redak
promise2.then( // obraduje se promise od fetcha
                                                                                   prazan
                                                                                                                      <!Doctype html> <html> tijelo poruke
          function(response) {
               if (!response.ok) { throw new Error("Cannot load"); }
                                                                                                                   Metode zahtjeva
                else { return response.json(); } // novo obecanje reponse.json()
                                                                                   GET - dohvacanje sadrzaja, HEAD- dohvacanje podataka o resursu(nema sadrzaja u tijelu za
          },
                                                                                   razliku od GET)
          function(error) { throw error; }
                                                                                   , POST(sign up, comment,burza grupa),PUT,DELETE
).then(
             // obraduje se promise od response.json
          function(response) { console.log("Loaded JSON"); }
                                                                                   HTTP reply - HTTP/1.1 {inacica protokola} 404 {kod} Not FOund {opis}
).catch(
             // catch hvata gresku u bilo kojem promiseu
                                                                                   Kod - 1xx (info){100-Continue}, 2xx(success){200-OK}, 3xx{301-permanet redirect},4xx(client
                                                                                   err){400-Bad request}{404-Not Found}
          function(error) { console.log(error); }
                                                                                         5xx(server error){500-Internal server err}{503-Service Unavailable}{505- http version not
                                                                                   supported}
                               //LoadJson\\
async function LoadJSON() { // funkcija se izvodi asinkrono
                                                                                   GET koristi link, POST body
   let promise = await fetch("https://web/categoryId=1");
                                                                                                                         | Validacija - moze se povuci js koji radi validaciju da se
      // unutar funkcije, await se izvodi sinkrono (ostatak funkcije ceka)
                                                                                   opera
                                                                                              dns server www.fer.hr
                                                                                                                         ne salje na server
   if (!promise.ok) { throw new Error ("Cannot load"); }
                                                                                   fer.hr?
                                                                                    ---->
                                                                                                                         | Cilj cache-a -> smanjiti odziv,internetski
   else { var jsonContents = await promise.json(); }
          console.log(jsonContents);
                                                                                    <-----
                                                                                                                          promet, opterecenje
                                                                                                                          Uvjetni GET -> IF-Match,IF-None-Match,If-Range
                                                                                   GET /pred/web
LoadJSON().catch(
                                                                                    ----->
                                                                                    HTTP 200 OK +index.html
          (error) => {console.log(error);}
                                                                                   <-----
          ****** prez 8 *******
                                                                                   GET css
                                                                                   ---->
GET{metoda} / predmet / rppzwpu HTTP{oznaka resursa}/1.1{oznaka protokola}
                                                                                   GET is
Host: www.fer.hr {ime posluzitelja}
                                                                                    ---->
HTTP - (hypermedia) prijenos u formatima -> html,meta-data,chunk,
                                                                                   <-----
Media Type -> text/html,image/jpeg,video/quickTime,application/javascript
                                                                                    <-----
                                                                                                   ******* prez 9,10 **********
             logo.png?
                                                                                                  Procesni modeli i protokoli
Browser -----
                      -----> www.fer.hr
                                                                                                    -> in-process (opasno,ISAPI,Apache Server Api,low usage)
                     Content-type image/jpeg
                                                                                                    -> poseban proc(sporo,CGI,low usage)
                     Content-length:1399
                                                                                                    -> poseban proc s pool-om(Fast CGI,PhP)
       <-----
                                                                                                    -> proc s 2 dretve
                                                                                                    -> proc s pool-om
MME Type - (tip/podtip) -> application/javascript, application/json, text/plain
                                                                                                    -> vanjski proc s pool-om dretvi
Ciklus zahtjev-odgovor= jedna konverzacija
                                                                                                   Arhitekture
HTTPS port(443) --> HTTS --> TLS/SSL --> TCP --> IP
                                                                                                    browser <---> server <---> vanjski intrepeter(python)
Uspostava komunikacije TLS - faza rukovanja (dogovor parametara),
                                                                                                    browser <---> server <---> aplikacijski server(Node.js)
           faza komunikacije(kljuc za sifriranje poruka)
                                                                                                    Event Loop -> ako je fja async stavlja se u queue sve dok se sve ne obradi
Tijek komunikacije Server <-> Client
    <- salje zahtjev, -> odgovara certifikatom, <- provjerava certifikat, generira kljuc sjednice
                                                                                                   Versioning -> patch ~version 1.2.3 -> [1.2.3, 1.3.0>
   , salje kljuc sifriran javnim kljucem, -> desifrira kljuc sjednice, <-> koriste kljuc sjednice
                                                                                                               -> minor ^version 1.2.3 -> [1.2.3, 2.0.0>
```

2

-> major *version

```
Promises
                                                                  Prijenost stanja -> hidden field, URL rewriting, cookies
 let makePromise=function (x) {
                                                                  Hidden field -> <input name="naziv" type="hidden" value="SID=abc123">
   return new Promise(function (res, rej) {
                                                                    --> pros - podrzan na svakom browseru, ne moze se onemoguciti, performanse
                                                                    --> cons - vidljivi kod izvornog koda, prijenos kod svake transakcije, koristenje obrazaca
        setTimeout(function () {
          res(x);
                                                                  //implementacija session-a
        }, 1000)
                                                                  router.use(session.sessionManager);
     } catch (err) {
                                                                  if(req.session.access_counter === undefined) // postavi access_counter koji smo izmislili
        //handle err
                                                                            req.session.access_counter = 0;
                                                                            //sessionFER\\
   })
                                                                  //session record store
                                                                  let sessionStore = new Map();
 let afAll = async function(){
   let sum=0;
                                                                  //extract sessionID from GET or POST request
   let res = await Promise.all([
                                                                  let sessionID = (req.query[sIDName] || req.body[sIDName]);
     makePromise(getRandomBetw([1,5])).then(function (r1){
        sum+=r1:
                                                                  //fetch the session record
        })
                                                                  let sidRecord = sessionStore.get(sessionID);
      .catch(function (err){
        //handle err
                                                                  if(!sidRecord) {
                                                                  sidRecord = {id: uuid.v4(), created: Date.now()};
     makePromise(getRandomBetw([1,5])).then(function (r2){
                                                                  sessionStore.set(sidRecord.id, sidRecord)
        sum+=r2:
                                                                  //add the session record to the request object
     }).catch(function (err){
                                                                  req.session = sidRecord;
        //handle err
                                                                  //pass the control to the next middleware layer
     })
            ])
                                                                  Url rewriting -> mehanizam oznacavanja sjednica kada cookie nije dostupan
 let sum=0;
                                                                                 (https://www.fer.unizg.hr/predmet/or?sid=234a3f0cc7)
 makePromise(getRandom([]))
                                                                       --> pros - neovisan o browseru, ne moze se onemoguciti na klijentu, jednostavan
 .then(function (r1){
                                                                       --> const - prijenos kroz URI, ogranicena kolicina, manja citljivost, dodatna funkcionalnost
   sum+=parseInt(r1);
   return makePromise(getRandom([]));
                                                                  //add sessionID parameter to URL query segment
 }).then(function (r3){
                                                                  return function(url) {
    sum+=parseInt(r3);
                                                                            let newURL = new URL(url)
   console.log(`sum is ${sum}`);
                                                                            newURL.searchParams.append(sIDName, sessionID)
 }).catch(function (err){
                                                                            return newURL.toString()
   //handle err
 })
                                                                  Cookies -> mala kolicina slobodno definiranih vrijednost, do 4kB
 let asyF = async function () {
                                                                          -> stvara server, sprema klijent
   let r1 = await makePromise(getRandom([]));
                                                                            --> domena+put=doseg
   let r2 = await makePromise(getRandom([]));
                                                                            --> sadrzaj - ime=vrijednost,obvezno
   let r3 = await makePromise(getRandom([]));
                                                                            --> domena - ako nije definirano uzima se od servera, npr www.fer.unizg.hr/predmet/or
   console.log("${r1}+${r2}+${r3}=${r1+r2+r2}");
                                                                            --> put - ako nije definiran uzima se dio URI-a,fer.unizg.hr/nastava/or/labosi.html --> /nastava/or
                                                                            -->rok valjanosti, ogranicenje pristupa,sigurnost prosljedivanja(isto za druge domene) <-- opcionalno
******* prez 11, 12 *********
                                                                                       GET /predmet/or
<%= x %> -> x
                                                                                      HOst www.fer.unizg.hr
<%- @x %> -> @x
                                                                  Client---->
validacija - provjera ispravnosti podataka
                                                                                       Set-cookie: sid=mileVOliDisko(sadrzaj);
    (moze se provesti na: serveru, bazi, klijentu)
                                                                                       Path=/nastava/or(put);Domain=www.fer.unizg.hr(domena);
    -> forma(disabled, maxlength, max, min, step)
                                                                                      Secure(sigurna veza);HttpOnly(nema lokalnog pristupa);
    -> js (regex, neka fja)
                                                                                      Expires: Wed, ...(istjece, moze i Max-age=3600)
                                                                  <-----Server
Stanja -> na razini citavog sustava(globalno)
                                                                  Uvjeti prosljedivanja cookie-a
      -> na razini korisnika sustava(kosarica)
                                                                    1. server pripada domeni (pr. www.fer.unizg.hr(*host-only),fer.unizg.hr,unizg.hr,hr ->da, carnet.hr->ne)
      -> na razini sjednice između korisnika i sustava(login)
                                                                    2. sadrzan unutar puta (/nastava/or/labosi,nastava/or->da, nastava/oop-> ne)
Tranzijetna pohrana -> nema trajnog cuvanja stanja
                                                                    3. nije isteko rok trajanja, 4.ako je defirniran secure salje se kroz https(ne http)
Prezistentna -> trajno cuvanje(pr. sustav i korisnik)
                                                                    5. ako zabranimo, cookie nece bit proslijeden iz druge domene
                                                                                      GET /nastava/or
Sjednica -> slijed vremenski omeđenih i logički povezanih
                                                                                      Host www.fer.unizg.hr
          transakcija između pojedinog klijenta i poslužitelja
                                                                                      Cookie: sid=abc123
  1. pocetak sjednice(zahtijev klijenta prema serveru
                                                                  Client-----
     nakon duljeg vremena neaktivnosti)
                                                                                      HTTP/1.1 OK
  2. trajanje sjednice(logicki povezane transakcije
                                                                                      Content-type: text/html
     izmedu klijenta i servera)
  3. zavrsetak sjednice(prestanak rada klijenta)
                                                                  <-----Server
                                                                                      GET /intranet/or
Identifikator sjednice(session token) -> određuje sjednicu,
                                                                                      Host www.fer.unizg.hr
           dodan svakoj transakciji koja pripada sjednici
                                                                                      Cookie: sid=abc123
                                                                  Client---->
                                                                                                                                                                     3
```

Trajni -> definiran rok valjanosti

Prijenos sesssion tokena-a -> URI, header, body

```
SameSite
                                                                   ******router.js******
                                                                                                                                      ******register.ejs******
   -> none (cookie se salje na drugu domenu)
                                                       const express = require('express');
                                                                                                                            <html>
   -> strict(cookie preko druge domene se ne salje,
                                                       const router = express.Router();
                                                                                                                            <head>
            isto ako postoji link na nju)
                                                       const \left\{body, validationResult\right\} = require('express-validator');
                                                                                                                              <title> <%= title %> </title>
   -> lax
                                                       const db = require('../db');
                                                                                                                            </head>
     (cookie preko druge domene
                                                       router.get('/', async function (req, res, next) {
                                                                                                                            <body>
            se ne salje ali radi link na nju)
                                                         let rsp = await db.query('SELECT email FROM users');
                                                                                                                            <%- include(`partials/header`); %>
     //cookies.js\\
                                                                  //router.get('/:id', function(req,res,next) {
                                                                                                                            <form action="/register" method="POST">
 res.cookie(req.query.name,
                                                                  //id = parseInt(req.params.id)
            req.query.value, { path: req.query.path })
                                                                  // rsp.rows[i] pristup elementima,
                                                                                                                                       <legend>Registration data</legend>
 res.clearCookie(req.query.name,
                                                                 // rsp.rows[i].atribut pristup atributu
            {path: req.query.path})
                                                       // www.testovi.com/test/:1?a=b&c=d --> req.query.a -> b, req.query.c -> d
                                                                                                                                       <label for="email">Email:</label>
      //app.js\\
                                                                                               //req.param.id -> 1
                                                                                                                                       <input type="text" name="email" id="email"
 const cookieParser = require('cookie-parser')
                                                         res.render('register', {
                                                                                                                                                             maxlength="20"
 //cookie parser middleware
                                                            title: 'Register',
                                                                                                                                                             minlength="2" size="30">
 app.use(cookieParser());
                                                            err: undefined,
                                                                                                                                       </div>
     //page.js\\
                                                            users: rsp.rows,
                                                                                                                                       <div>
 router.get('/*', function(req, res, next) {
                                                            user: req.session.user
                                                                                                                                       <label for="password">Password:</label>
 res.render('page', {
                                                         });
                                                                                                                                       <input type="text" name="pass" id="password"
 path: req.path,
                                                       });
                                                                                                                                                             maxlength="20"
 cookies: req.cookies
                                                       router.post('/', [
                                                                                                                                                             minlength="2" size="30">
                                                       body('email').trim().isEmail(),
                                                                                                                                       </div>
                                                       body('pass').trim().isLength({ min:3, max:20 })
    ******server.js******
                                                                                                                                       <div>
                                                       //body('employedsince').toInt().isInt({min:1970,max:2021}),
const express = require('express');
                                                                                                                                       <input class="btn" type="submit" value="Submit">
                                                       ],
                                                                                                                                       <input class="btn" type="reset" value="Reset">
const app = express();
                                                       async function (req, res, next) {
                                                                                                                                       </div>
const path = require('path');
                                                       const errors = validationResult(req);
                                                                                                                                       <% if (err !== undefined) { %>
const pg = require('pg')
                                                       if (!errors.isEmpty()) {
                                                                                                                                       <div>
const db = require('./db')
                                                                  res.render('register', {
                                                                                                                                                   <%= err %>
const session = require('express-session')
                                                                             title: 'Register',
                                                                                                                                       </div>
const pgSession =
                                                                             err: "Invalid input!",
           require('connect-pg-simple')(session)
                                                                                                                                       <% } %>
                                                                              users: [],
                                                                                                                                       </fieldset>
const router = require('./routes/router');
                                                                              user: req.session.user
app.set('views', path.join(__dirname, 'views'));
                                                                                                                            </form>
                                                                  });
app.set('view engine', 'ejs');
                                                                                                                            <div>
                                                       } else {
                                                                                                                              Used emails:
app.use(express.static
                                                                  try {
(path.join(__dirname, 'public')));
                                                                                                                              <% for (usr of users) { %>
                                                                              await db.query('INSERT INTO
app.use(express.urlencoded({ extended: true }));
                                                                                                                                 <%= usr.email %>
                                                                              users(email, password) VALUES ($1, $2)',
                                                                                                                              <% } %>
app.use(session({
                                                                                         [req.body.email, req.body.pass]);
                                                                                                                            </div>
  store: new pgSession({
                                                                              req.session.user = {email: req.body.email};
                                                                                                                            <% if (user !== undefined) { %>
    pool: db.pool,
                                                                              res.redirect('/register');
  }),
                                                                  } catch (err) {
  secret: 'fer-web-lab4',
                                                                                                                              This session:
                                                                              console.log(err);
                                                                                                                              <%= user.email %>
  resave: false,
                                                                              res.render('register', {
                                                                                                                            </div>
  saveUninitialized: true,
                                                                                         title: 'Register',
                                                                                                                            <% } %>
           cookie: {maxAge: 24 * 60 * 60 * 1000}
                                                                                         err: "Database error!",
                                                                                                                            </body>
                                                                                         users: [],
app.use('/register', router);
                                                                                                                            </html>
                                                                                         user: req.session.user
app.listen(3000);
                                                                                                                          Registration data
                                                                             });
Opis modela: upisujemo mail i password
                                                                                                                          Email:
                                                                  }
i tako se registriramo, ispisujemo stare
                                                                                                                          Password:
mailove i trenutnog, req.session.user =
                                                                                                                          Submit Reset
                                                       });
{email: req.body.email}; moglo se i
                                                       module.exports = router;
req.session.user=req.body.email ali ovako
                                                                                                                        Used emails: a@gmail.com lmao@gmail.com av@yahoo.com aaaa@gha.t
                                                                                                                        This session: aaaaa@dakdxa.com
mozemo dodat i neki dodatni parametar kojem
mozemo pristupit preko ejs-a, npr username: req.body.username
// ISON \\
                                          let person = {firstName:"John"
   Paragraf 
                                                   , lastName:"Doe", age:50, eyeColor:"blue"};
  <button onclick="decr()">-</button>
                                          let personJSON = JSON.stringify(person);
  <input id="cnt" type="text"
                                          let personFromJSON = JSON.parse(personJSON);
        value="5" readonly/>
</body>
function decr(){
```

let cnt=document.getElbyid("cnt"); cnt.value=Number(cnt.value)-1; let p = document.getElementById("i1"); p.style.backgroundColor = "Red"; p.innerHTML = "promjena teksta"; let newP = document.createElement("p");

body.appendChild(newP);