

node.js → Sap

node -> 4

node index.js ↗
실행

`const fs = require('fs/promises');`

```
fs.writeFileSync(file, data, callback)
```

11308' N 11308' N → 11000' ← (err) ⇒ 9

```
it (err) throw err;  
console.log("good");
```

```
fs.readFile("index.html", "utf-8", (err, data) => {
    if (err) throw err;
    console.log(data);
});
```

npm → node package manager

npm install <something>

ל'ק
י אֶלְעָנָן דְּבַרְתִּי כִּי תֵּלֶךְ בְּאֶבֶן

הַיְלָדֶת הַזֹּאת כִּי תֵּשְׁאַל מֵהֶם שֶׁ

DEPENDENTS גְּדָלִים

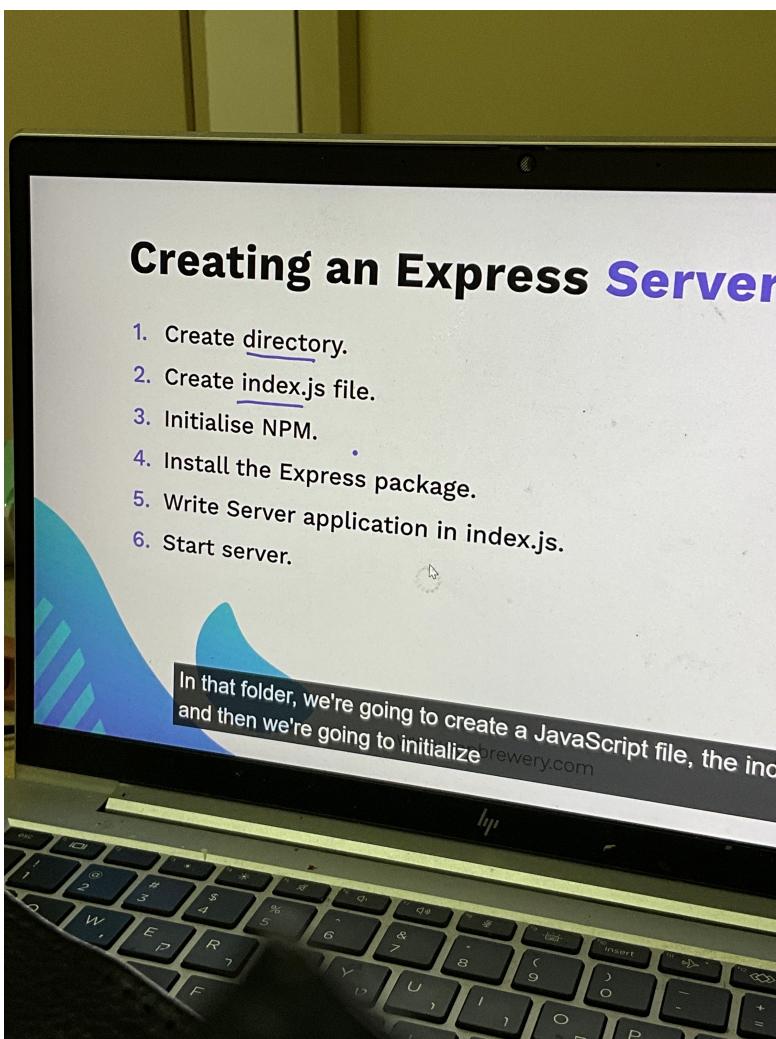
```
console.log(`My name is ${name}.`)
```

require ~היה import →enus類
type="module" פון גולן פלאט main ועוזן
proj ← ויליאם וו
ונר

The screenshot shows a terminal window with several tabs open. The active tab is 'index.js' which contains the following code:

```
1 import inquirer from "inquirer";
2 import qr from "qr-image";
3 import fs from "fs";
4
5 inquirer
6   .prompt([
7     {
8       message: "Type in your URL: ",
9       name: "URL",
10    },
11  ])
12  .then((answers) => {
13    const url = answers.URL;
14    var qr_svg = qr.image(url);
15    qr_svg.pipe(fs.createWriteStream("qr_img.png"));
16
17    fs.writeFile("URL.txt", url, (err) => {
18      if (err) throw err;
19      console.log("The file has been saved!");
20    });
21  })
22  .catch((error) => {
23    if (error.isTtyError) {
24      // Prompt couldn't be rendered in the current environment
25    } else {
26      // Something else went wrong
27    }
28  });
29 */
30
31 1. Use the inquirer npm package to get user input.
32 2. Use the qr-image npm package to turn the user entered URL into a QR code image.
```

express



: מkdir -p ./app

mkdir -p ./app
cd ./app

touch index.js

json 파일 만들기
npm init -y

npm install express

json 파일 만들기
"type": "module"

index.js 파일 만들기

```

import express from "express";
const app = express();
app.listen(3000, () => {
    console.log('server running on port 3000.');
});

```

IP:3000 and port
SIC /> const port = 3000
port ~ 0000 unused

node index.js	SQL	API	verb (6)
	SELECT	SELECT	GET
	INSERT	INSERT	POST
	UPDATE row	UPDATE JSON	PUT
	DELETE row	DELETE JSON	PATCH
	DELETE		DELETE

Middlewares

```

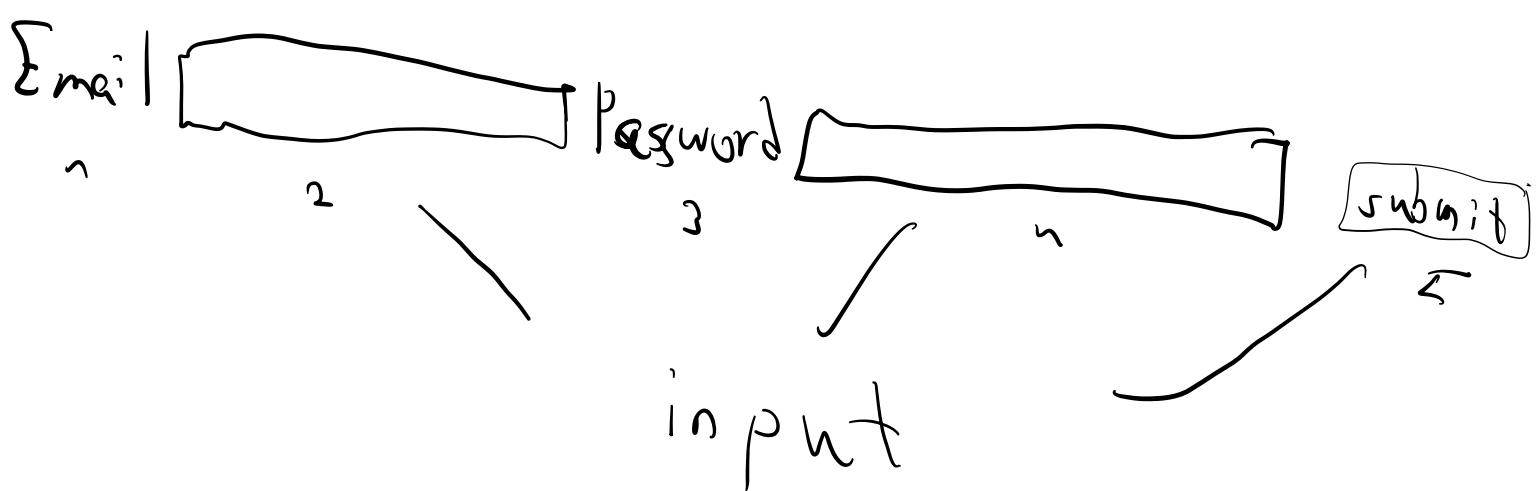
<form action="/login" method="POST">
    <label for="email">Email </label>
    <input type="text" name="email" />
    <label for="password">Password </label>
    <input type="password" name="password" />
    <input type="submit" value="Login" />

```

```

<input type="text" name="email" required>
<label for="password">Password</label>
<input type="text" name="password" required>
<input type="submit" value="Submit" />
</form>

```



new new new html file created in public folder

```

import { dirname } from "path";
import { fileURLToPath } from "url";
const -dirname = dirname(fileURLToPath(import.meta.url)),
app.get("/", (req, res) =>
  res.sendFile(-dirname + "/index.html"));

```

morgan

install morgan

```
import morgan from "morgan";
app.use(morgan("combined"))
```

← order middlewares →

```
app.use((req, res, next) => {
  console.log("Request method: ", req.method);
  next();
});
```

~~morgan.js file~~

→ curl -X GET http://127.0.0.1:3001

if config passed, then, this req

is /api ↗

0(1) or 17/ps do this in cc.

curl -X POST http://127.0.0.1:3001/api

→ curl -X GET http://127.0.0.1:3001/api

API 5 333 133

טבלת שימוש ב-HTTP Methods					
Method	מטרה ראשית	params	מצזה ייחודי (מי)	פרמטרים אופציונליים →	נתונים חדשים/עדכן → Body
GET	שיליפה / קראיה	(vegetables/:id/)	(לודגמה: ?num=5&sort=asc)	query	אסור (אין body)
POST	יצירה / פעולה חדשה	(new)	לא חוכה	חוכה (נתוני היצירה החדש)	✓ איסור (body)
PUT	עדכן חלק (מחליף או/וקט)	(part)	כן (מי לעדכן)	לא חוכה	✓ חוכה (הנתונים החדש)
PATCH	עדכן חלק (שדה אחד/שניים)	(part)	כן (מי לעדכן)	לא חוכה	✓ חוכה (רק השזהות לשינוי)
DELETE	מחיקה	(deletion)	כן (מי למחוק)	כמעט תמיד	✓ אין body