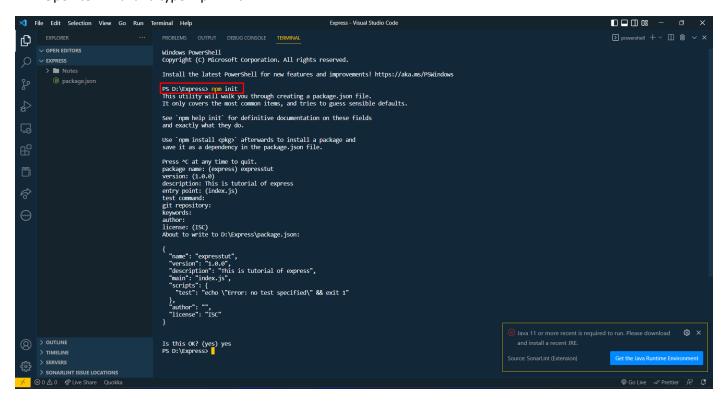
Express Js

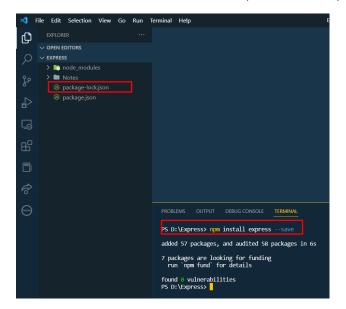
- Is server side framework.
- If you want to use Node Js on server side then you will use Express Js.
- We can create our API.
- Unopinionated (You can write code on own opnion)
- Open vs code in particular folder.
- Open terminal and type: npm init



- Create index.js (because it is entry point: we define in above image.)
- We write code in index.js

Node js: browser per je javaScript run thay che ene server per run karva mate no ek tariko che.

Run this command in terminal: \$ npm install express --save



 $npm \rightarrow is$ a package manager of node. With help of we can download other packages in node_modules. Also we can use other package using npm.

node_modules: is a very big folder. When we run npm i or npm init that time this folder is created

Docs: of Hello world

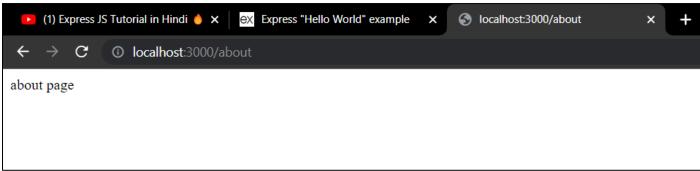
Open any browser and type:

localhost:3000 → This page show message "Hello World!"

here 3000 is our port number which is we define in code.

localhost:3000/about → This page show message "about page"



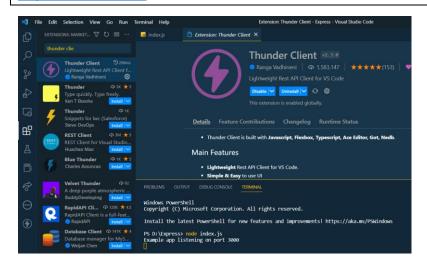


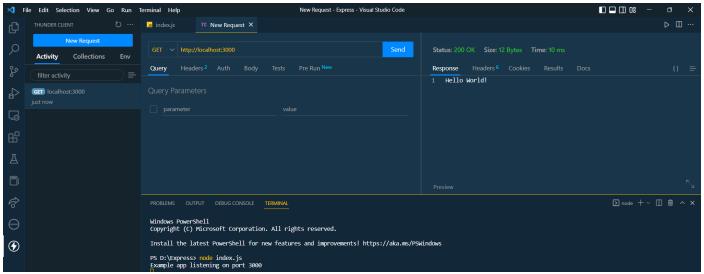
Now, install extension thunder client.

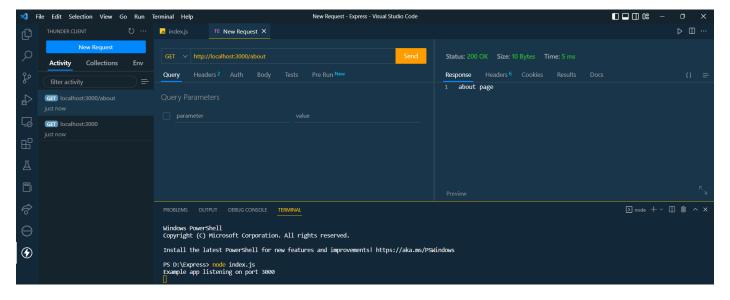
It is use to run code inner vs code.

Which is use for pass get request. Like to run above program in vs code. Open thunder client and type:

http://localhost:3000







We can also pass the file. Like inde.html, etc. use below code like that

```
File Edit Selection View Go
                                  Run
                                       Terminal Help
                                                                                           index.js - Express - Visual Studio Code
        EXPLORER
                                          us index.js
                                                           index.html
                                                                            TC New Request
凸

∨ OPEN EDITORS

                                           Js index.js >
                                                  const express = require('express')
         X Js index.js
                                                  const path = require('path')
           index.html
                                                  const app = express()
           TC New Request
وړ
                                                  const port = 3000

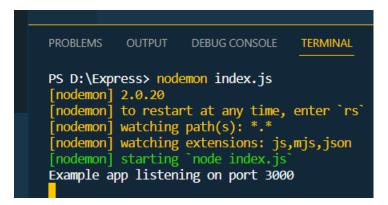
✓ EXPRESS

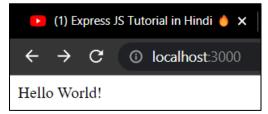
        > node_modules
                                                  app.get('/', (req, res) => {
        > Notes
                                                   res.send('Hello World!')
          index.html
Ę
                                                  app.get('/about', (req, res) => {
          Js index.js
          package-lock.json
                                                      res.sendFile(path.join(__dirname,'index.html'))
RP
          package.json
Д
                                                  app.listen(port, () => {
                                            15
                                                  console.log(`Example app listening on port ${port}`)
                                            16
Pi
```

Open terminal: npm install -g nodemon

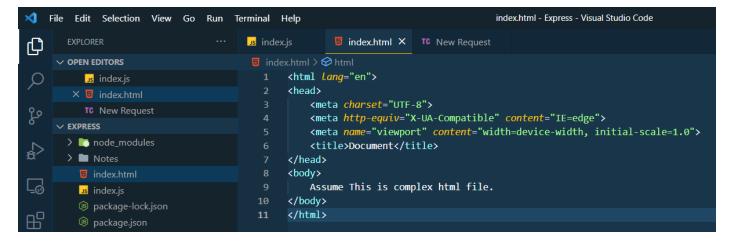
It is use to automatic execute code

Now type: nodemon index.js



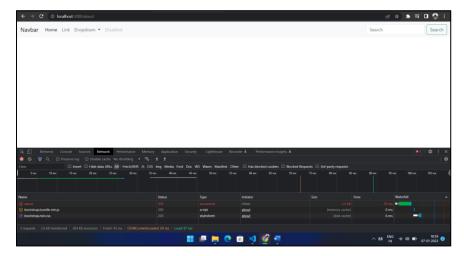






We add bootstrap in index.html

With help of express we can also create static website.



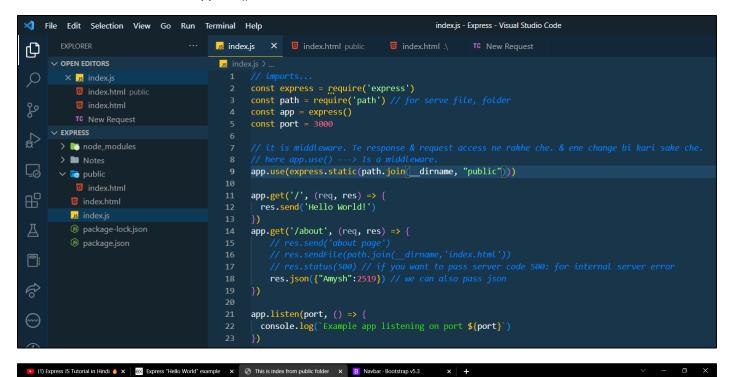
Pass json:

```
(1) Express JS Tutorial in Hir X Express "He C O localhost:3000/about

{
    "Amysh": 2519
}
```

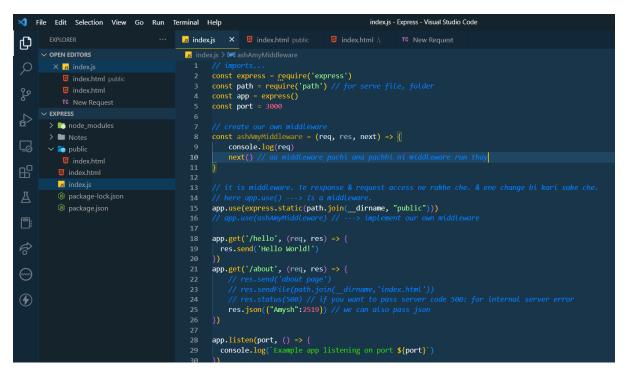
Now we will serve static folder.

We use middle ware: app.use()



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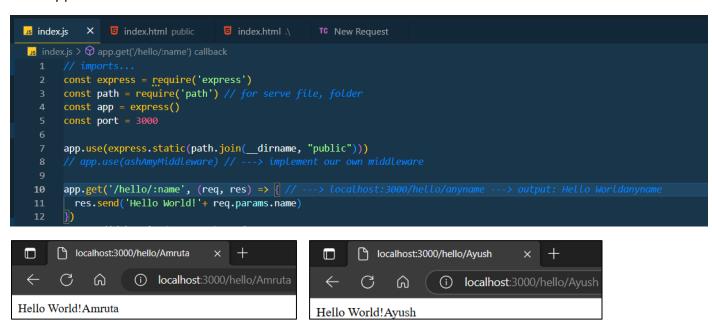
We can also write our own middle ware.



(1) Express JS Tutorial in Hindi 💧 🗴 🔯 Express "Hello World" example 💢 🕙 This is index from public folder 💢 📙 Navbar - Bootstrap v5.3

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Pass any parameter.



File structure:

```
Js blog.js
                                 Js index.js
                                                                  X 5 blogpage.html
                                                                                             Js blogs.js
仚
                                  \text{routes} > \underline{\text{ ss}} \; \; \text{blog.js} > {\Large \textcircled{p}} \; \text{router.get('/blogpost/:slug') callback} > {\Large \textcircled{p}} \; \text{blogs.filter() callback}

✓ OPEN EDITORS

                                          const express = require('express')
            us index.js
                                          const path = require('path')
         X Js blog.js routes
                                          const blogs = require('../data/blogs')
const router = express.Router()

■ blogpage.html t...

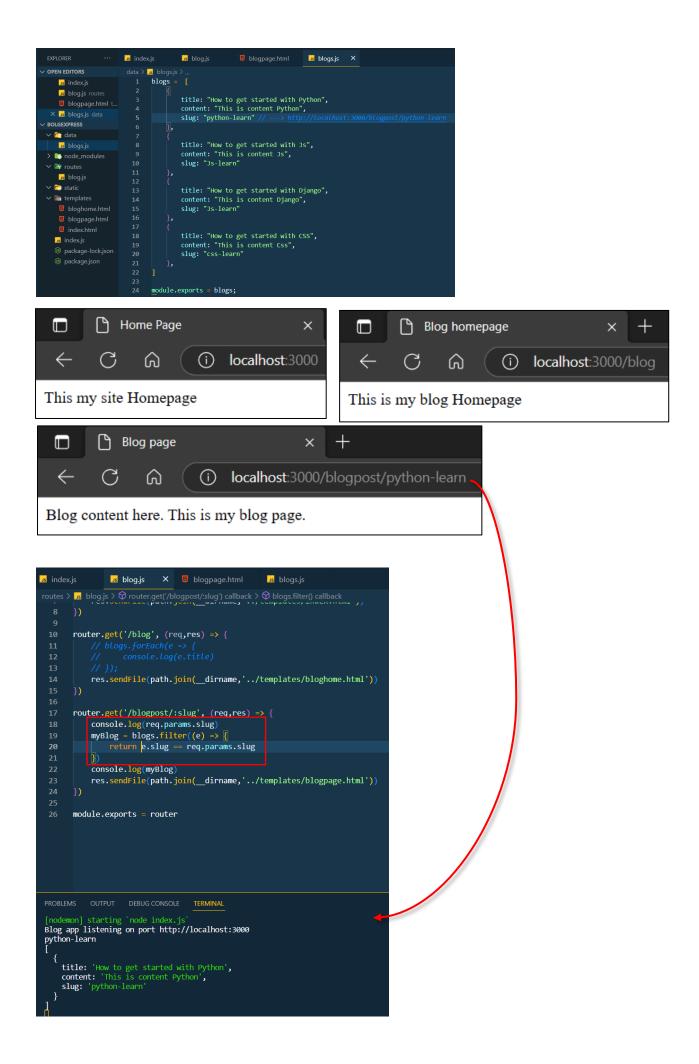
مړ
            us blogs.js data

✓ BOLGEXPRESS

                                          router.get('/', (req,res) => {
        🗸 츦 data
                                               res.sendFile(path.join(__dirname,'../templates/index.html'))
            Js blogs.js
> node_modules
                                          router.get('/blog', (req,res) => {
        us blog.js

√ Image templates

                                               res.sendFile(path.join(__dirname,'../templates/bloghome.html'))
            5 bloghome.html
            5 blogpage.html
                                          router.get('/blogpost/:slug', (req,res) => {
            index.html
                                               console.log(req.params.slug)
           us index.js
                                               myBlog = blogs.filter((e) => {
           package-lock.json
                                                   return e.slug == req.params.slug
           package.json
                                               console.log(myBlog)
                                               res.sendFile(path.join(__dirname,'../templates/blogpage.html'))
                                          module.exports = router
```



- Now use with database we use: mongoose.
- Which is use to connect with database.

Now, we use handlebars.

- Express handlebars & (Is a npm package)
- Handlebars (Is templating engine which is very helpful for JavaScrip templating)

\$ npm install express-handlebars

Follow this docs in above project

```
刘 File Edit Selection View Go Run Terminal Help
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  index.is - bolgExpress - Visual Str
🗸 큲 data
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                                                                                                                                                                                                C
                             us blogs.js

✓ OPEN EDITORS

                                                                                                                                                                                                                                                                                                                                          us index.js
                                                                                                                                                                                                                                     X Js index.js
 > node_modules
                                                                                                                                                                                                                                                                                                                                                                      const express = require('express')
                                                                                                                                                                                                                                                                                                                                                  const expless = _equire( express )
var expless = require('express-handlebars');

// const { engine } = require('express-handlebars');

const path = require('path') // for serve file, folder
const app = express()
const port = 3000
                                                                                                                                                                                                                                             Js blog.js routes
main.handlebars...
                             us blog.js
                                                                                                                                                                                                                                               Js blogs.js data
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                                                                                                                                                                                                🗸 츦 data
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                                                                                                                                                                                                                                                                                                                                                                         var hbs = exphbs.create({ /* config */ });

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  image routes

                                                                                                                                                                                                  us blog.js
                                                                                                                                                                                                                                    ∨ 🧰 static
                                                                                                                                                                                                                                                                                                                                                                        app.engine('handlebars', hbs.engine);
app.set('view engine', 'handlebars');
                                  main.handlebars

✓ Image views

                             bloghome.html

✓ Image: Value of the large of the larg
                                                                                                                                                                                                                                                                                                                                                                         app.use(express.static(path.join(__dirname, "public")))
                             blogpage.html
                                                                                                                                                                                                                                                                                                                                                                          app.use('/',require(path.join(__dirname,'routes/blog.js')))

■ blogpage.html

                           home.handlebars
                                                                                                                                                                                                                                                  home.handlebars
                                                                                                                                                                                                                                                                                                                                                                           app.listen(port, () => {
                                                                                                                                                                                                                                                                                                                                                                                    console.log(`Blog app listening on port http://localhost:${port}`)
                             index.html
                                                                                                                                                                                                                                             us index.js
                    Js index.js
                   package-lock.json
                    package.json
```

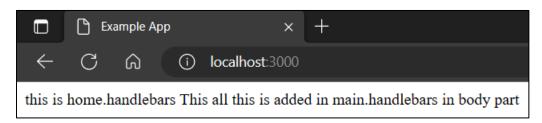
S

```
us index.js
                                        Js blog.js
                                                                                ፱ blogpage.html

→ home.handlebars

routes > 🗷 blog.js > 🗘 router.get('/blogpost/:slug') callback > 🕏 blogs.filter() callback
       const express = require('express')
       const path = require('path')
       const blogs = require('../data/blogs')
const router = express.Router()
       router.get('/', (req,res) => {
            res.render('home');
       router.get('/blog', (req,res) => {
            res.sendFile(path.join(__dirname,'../templates/bloghome.html'))
       router.get('/blogpost/:slug', (req,res) => {
            console.log(req.params.slug)
            myBlog = blogs.filter((e) => {
                return e.slug == req.params.slug
            console.log(myBlog)
            res.sendFile(path.join(__dirname,'../templates/blogpage.html'))
```

Output:



- Now create other files in view folder.
 - blogHome.handlebars
 - blogPage.handlebars

```
us index.js
                Js blog.js
                           X — blogHome.handlebars
                                                         blogpage.handlebars
routes > Js blog.js > .
       const express = require('express')
       const path = require('path')
       const blogs = require('../data/blogs')
       const router = express.Router()
       router.get('/', (req,res) => {
           res.render('home');
  10
       router.get('/blog', (req,res) => {
           res.render('blogHome' , {
               blogs: blogs
       router.get('/blogpost/:slug', (req,res) => {
           console.log(req.params.slug)
           myBlog = blogs.filter((e) => {
               return e.slug == req.params.slug
 23
           console.log(myBlog)
           res.render('blogPage' , {
               title: myBlog[0].title,
               content: myBlog[0].content
  29
       module.exports = router
```

```
File Edit Selection View Go Run Terminal Help
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D
                                                                                                                                                                                                                       blogHome.handlebars
                                                                                                                                                                                                                                                                                                                blogpage.handlebars
                                                                                                                                                                                                                                                                                                                                                                                                    → main.handlebars × → home.handlebars
                                    us index.js
us blog.js routes
us blogHome.hand..
                                                                                                                                               ∨ 🦲 data
Js blogs.js

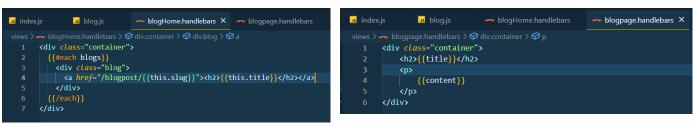
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                          > node_modules
                                                                                                                                                        ∨ 📭 routes
Js blog.js

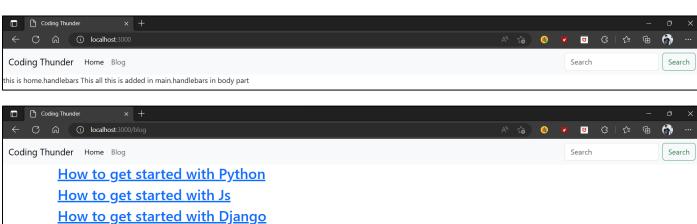
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                                                                                                                                              \{\{l--\ //\ other\ handlebars\ contents\ is\ pass\ here.\ --\}\}

→ blogHome.hand...

■ bloghome.html

                                                                                                                                         </html>
```





Click any one of link.

How to get started with CSS

