

```
const express= require('express')

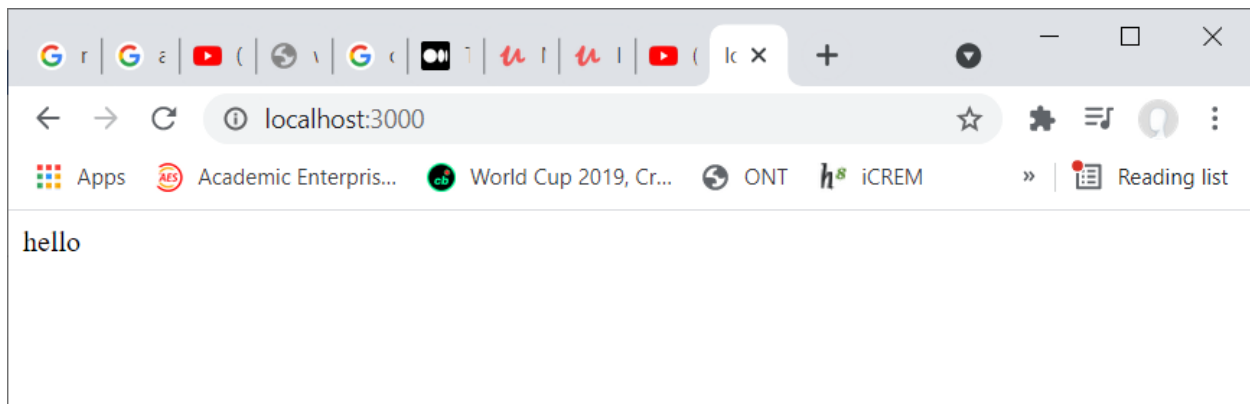
const app = express()

app.get('/',(req,res,next)=>{

    res.send("hello")
})

app.listen(3000)
```

Check localhost:3000

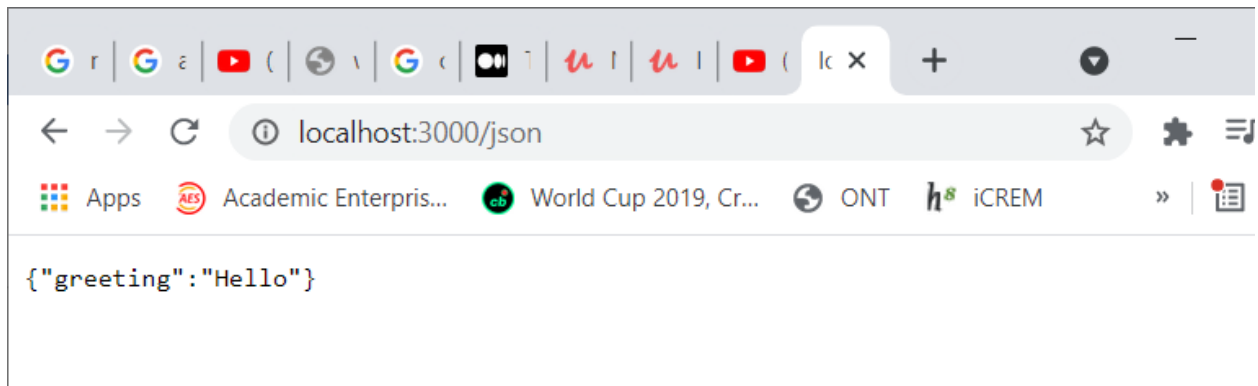


```
const express= require('express')

const app = express()

app.get('/',(req,res,next)=>{

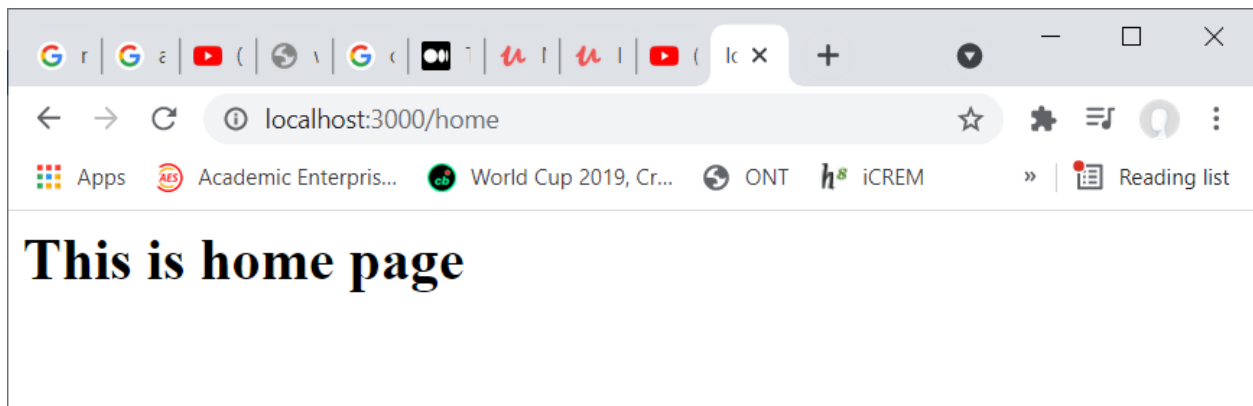
    res.send("hello")
})
app.get('/json',(req,res,next)=>{
    const data ={
        greeting:'Hello'
    }
    res.json(data)
})
app.listen(3000)
```



```
const express= require('express')
const path=require('path')
const hoganMiddleware=require('hogan-middleware')
const app = express()
app.set('views',path.join(__dirname,'views'))
app.set('view engine', 'mustache')
app.engine('mustache', hoganMiddleware.__express)
app.get('/',(req,res,next)=>{
    res.send("hello")
})
app.get('/json',(req,res,next)=>{
    const data ={
        greeting:'Hello'
    }
    res.json(data)
})
app.get('/home',(req,res,next)=>{
    res.render('home',null)
})
app.listen(3000)
```

#### home.mustache

```
<html>
<head>
</head>
<body>
<h1> This is home page</h1>
</body>
</html>
```



Mkdir public

Cd public

Mkdir images

Mkdir css

Mkdir js

Add image into public/images

Add css file style.css in public/css

```
const express= require('express')
const path=require('path')
const hoganMiddleware=require('hogan-middleware')
const app = express()
app.set('views',path.join(__dirname,'views'))
app.set('view engine', 'mustache')
app.engine('mustache', hoganMiddleware.__express)
app.use(express.static(path.join(__dirname,'public')))
app.get('/',(req,res,next)=>{
    res.send("hello")
})
app.get('/json',(req,res,next)=>{
    const data ={
        greeting:'Hello'
    }
    res.json(data)
})
app.get('/home',(req,res,next)=>{
    res.render('home',null)
})
app.listen(3000)
console.log("server running in https://localhost:3000")
```

```
<html>

<head>

<link rel="stylesheet" type="text/css" href="/css/style.css">

</head>

<body>

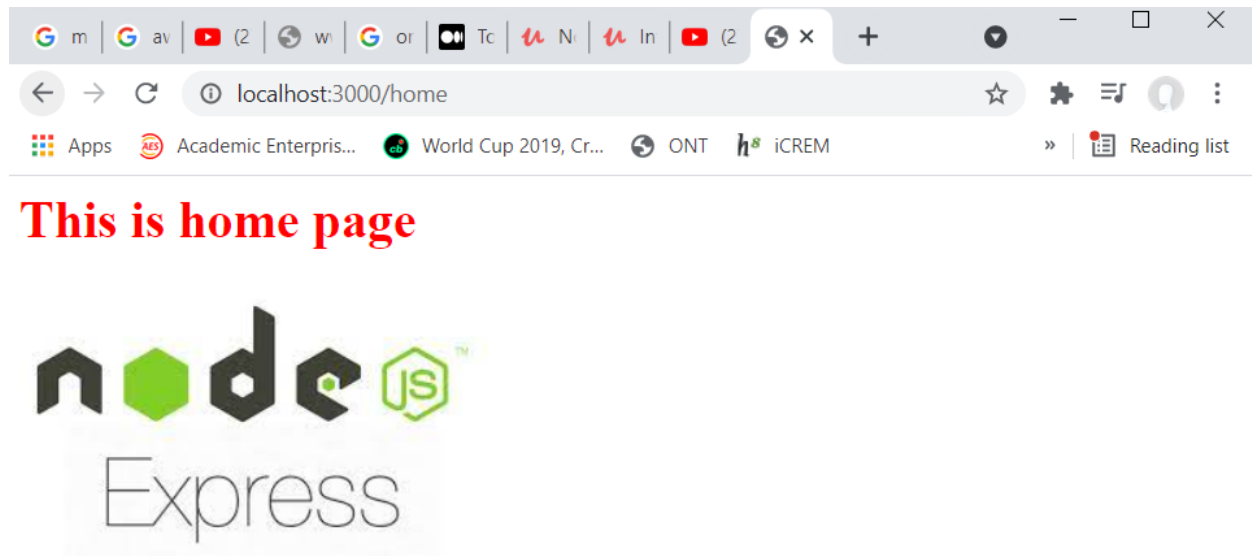
<h1> This is home page</h1>



</body>

</html>
```

```
h1
{
  color: red;
}
```



Mkdir routes

Cd routes

Create index.js

Index.js in node1/routes/index.js

```
const express= require('express')
const router=express.Router()
router.get('/',(req,res,next)=>{
    res.send('Hello World from routs')
})
router.get('/home',(req,res,next)=> {
    res.render('home',null)
})
router.get('/json',(req,res,next)=>{
    res.json({
        greetings:"Hello from json in routes"
    })
})
module.exports= router
```

index.js in node1/index.js

```
const express= require('express')
const path=require('path')
const hoganMiddleware=require('hogan-middleware')
const app = express()
app.set('views',path.join(__dirname,'views'))
app.set('view engine', 'mustache')
app.engine('mustache', hoganMiddleware.__express)
app.use(express.static(path.join(__dirname,'public')))
const indexRouter=require('./routes/index')
app.use('/',indexRouter)
app.listen(3000)
console.log("server running in https://localhost:3000")
```

Project Generators:

Npm install turbo-cli -g

Check version

Turbo version

Create sample

Turbo new sample\_project

Sample project created

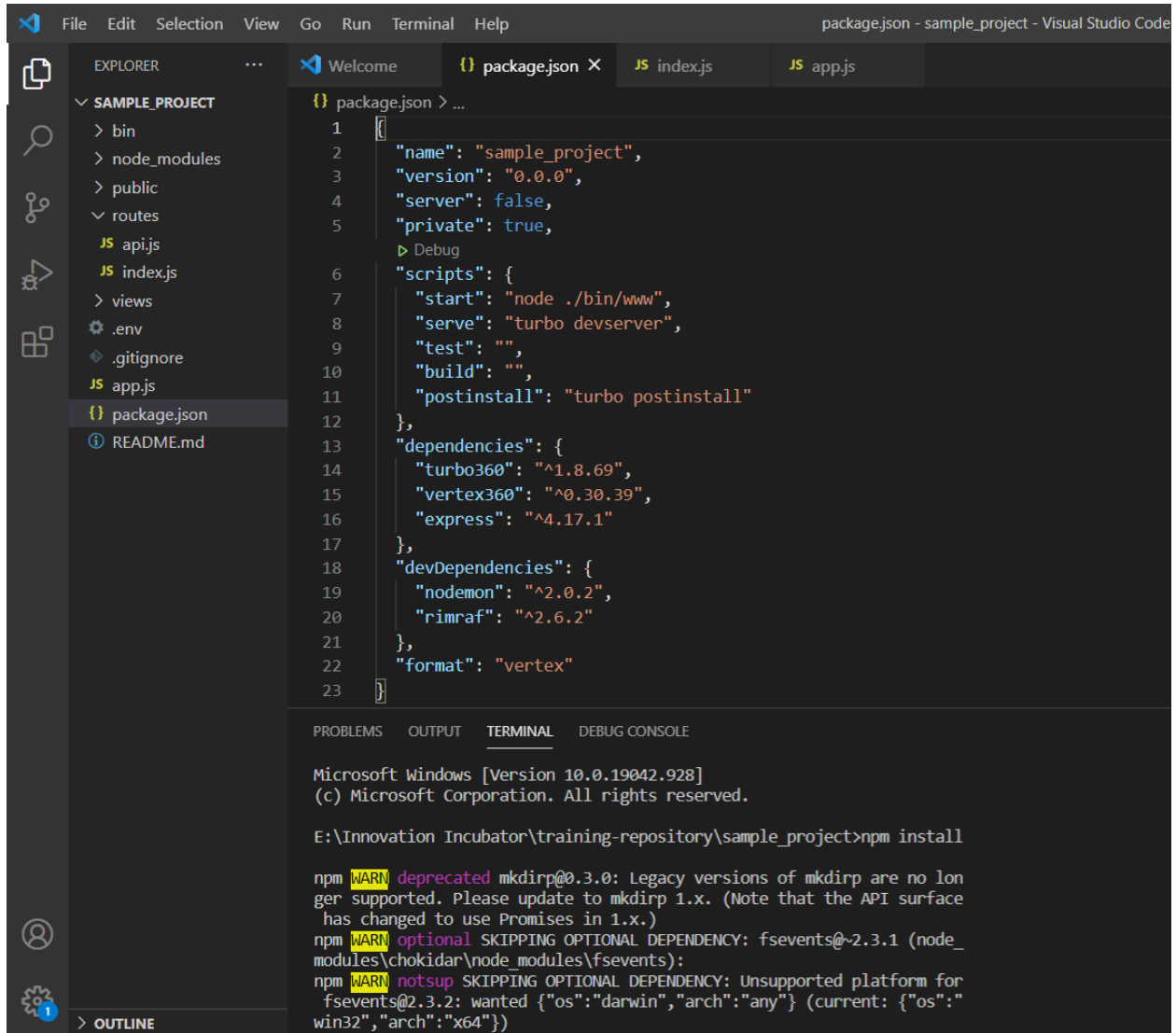
Project structure created with public routes package and app.js we will get fully functional project here

Cd sample\_project

Now when we check json many dependencies are there to install them

Npm install

All will be installed and folder node\_modules will be created



The screenshot shows the Visual Studio Code interface with the 'package.json' file open in the editor. The file contains the following JSON:

```
{
  "name": "sample_project",
  "version": "0.0.0",
  "server": false,
  "private": true,
  "scripts": {
    "start": "node ./bin/www",
    "serve": "turbo devserver",
    "test": "",
    "build": "",
    "postinstall": "turbo postinstall"
  },
  "dependencies": {
    "turbo360": "^1.8.69",
    "vertex360": "^0.30.39",
    "express": "^4.17.1"
  },
  "devDependencies": {
    "nodemon": "^2.0.2",
    "rimraf": "^2.6.2"
  },
  "format": "vertex"
}
```

The Explorer sidebar on the left shows the project structure, including folders like 'bin', 'node\_modules', 'public', 'routes', 'views' and files like 'api.js', 'index.js', 'app.js', 'package.json', and 'README.md'. The Terminal panel at the bottom shows the output of the 'npm install' command:

```
Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

E:\Innovation Incubator\training-repository\sample_project>npm install

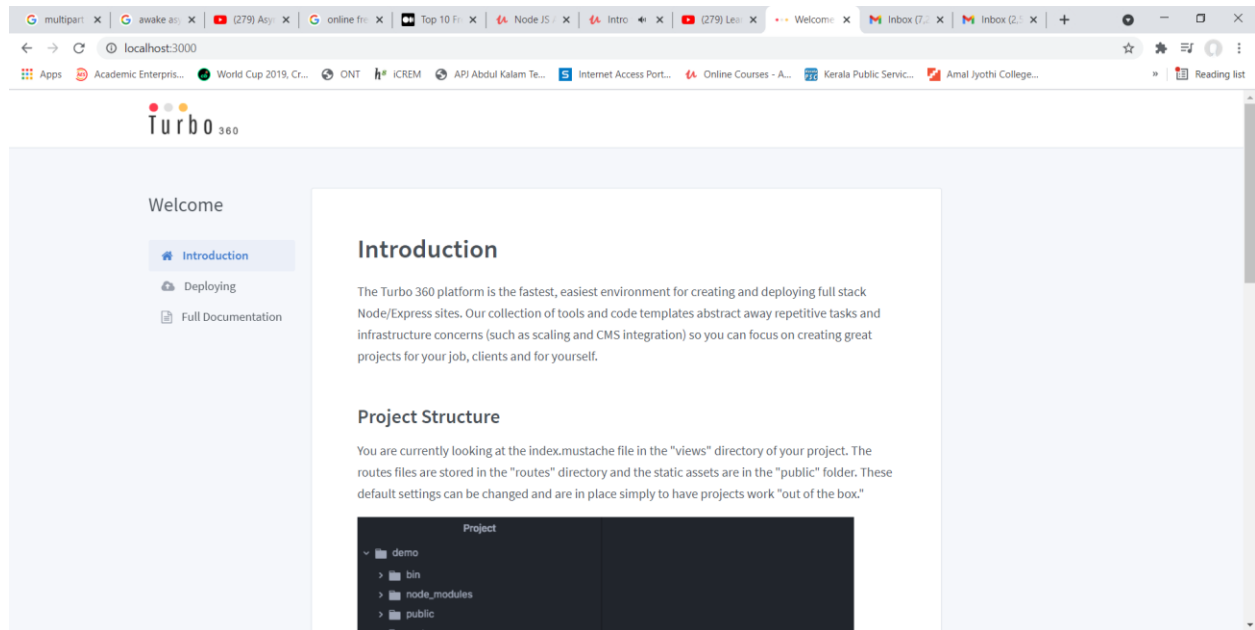
npm WARN deprecated mkdirp@0.3.0: Legacy versions of mkdirp are no longer supported. Please update to mkdirp 1.x. (Note that the API surface has changed to use Promises in 1.x.)
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@~2.3.1 (node_modules\chokidar\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
```

To check whether its running

Use

Nodemon

Localhost:3000



## Index.js

```
// Full Documentation - https://docs.turbo360.co
const express = require('express')
const router = express.Router()

/* This is the home route. It renders the index.mustache page from the views directory.
   Data is rendered using the Mustache templating engine. For more
   information, view here: https://mustache.github.io/#demo */
router.get('/', (req, res) => {
  res.render('index', { text: 'This is the dynamic data. Open index.js from the routes directory to see.' })
})

router.get('/:path', (req, res) => {
  const path = req.params.path
  res.json({
    data: path
  })
})

router.get('/:profile/:username', (req, res) => {
  const profile = req.params.profile
  const username = req.params.username
  res.json({
    Id: profile,
```

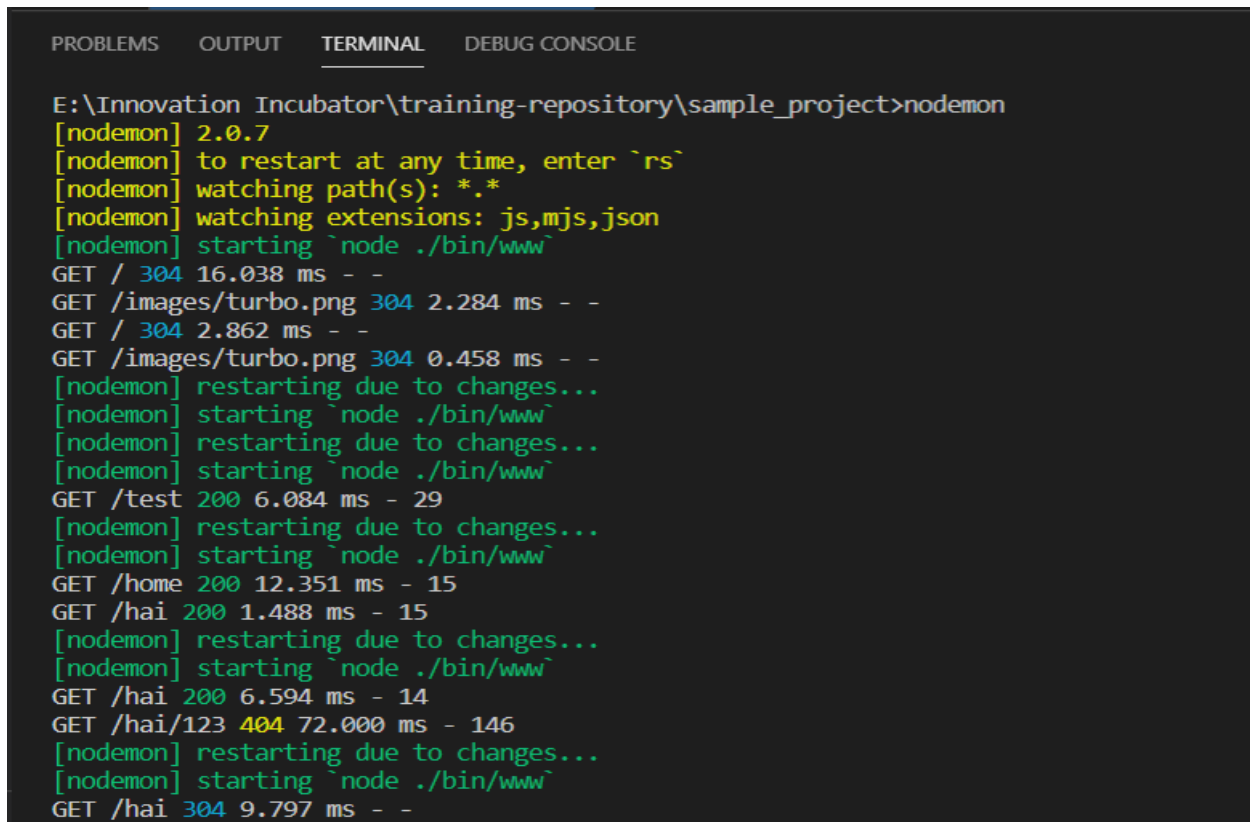
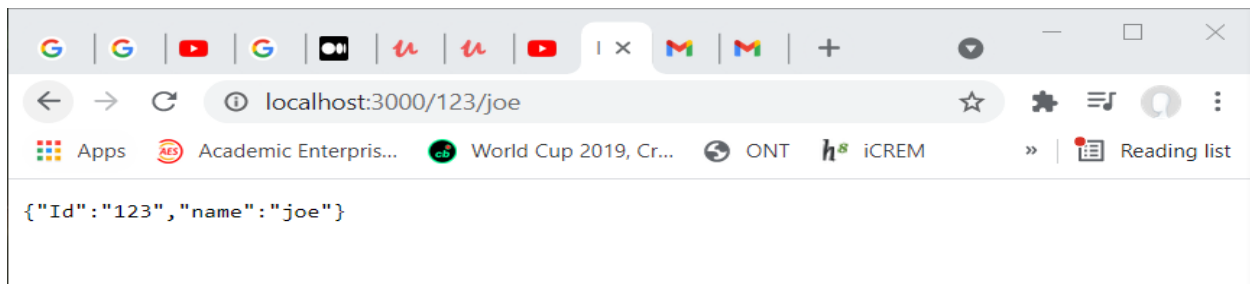
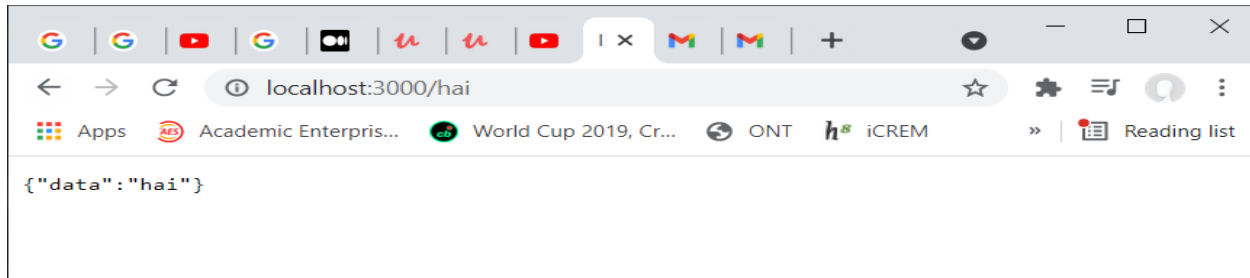
```

    name:username
  })
})

module.exports = router

```

nodemon





```

const express = require('express')
const router = express.Router()

router.get('/', (req, res) => {
  res.render('index', { text: 'This is the dynamic data. Open index.js from the routes directory to see.' })
})

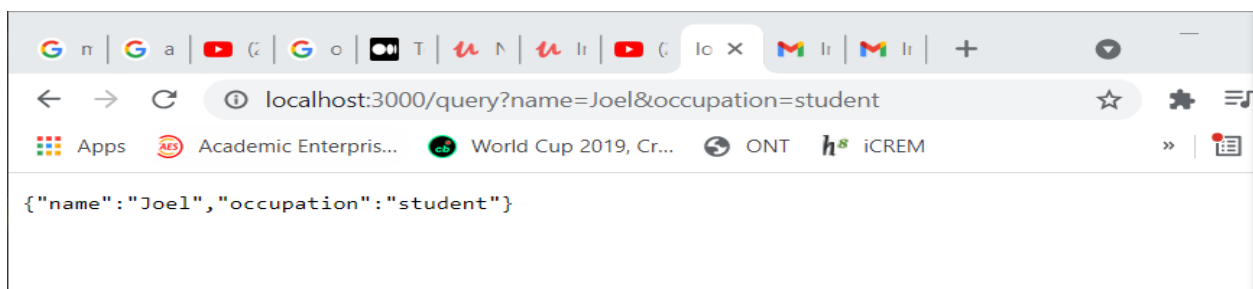
router.get('/query', (req, res) => {
  const name = req.query.name
  const occupation = req.query.occupation
  res.json({
    name: name,
    occupation: occupation
  })
})

router.get('/:path', (req, res) => {
  const path = req.params.path
  res.json({
    data: path
  })
})

router.get('/:profile/:username', (req, res) => {
  const profile = req.params.profile
  const username = req.params.username
  res.json({
    Id: profile,
    name: username
  })
})

module.exports = router

```



Display data in another page: routes/index.js

```
const express = require('express')
const router = express.Router()

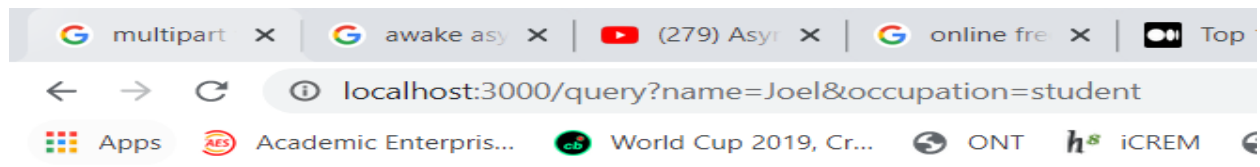
router.get('/', (req, res) => {
  res.render('index', { text: 'This is the dynamic data. Open index.js from the routes directory to see.' })
})

router.get('/query', (req, res) => {
  const name = req.query.name
  const occupation = req.query.occupation
  const data = {
    name: name,
    occupation: occupation
  }
  res.render('profile', data)
})

module.exports = router
```

views/profile.mustache

```
<html>
<head>
</head>
<body>
<h1>Name:{{name}}</h1>
<h2>Occupation:{{occupation}}</h2>
</body>
</html>
```



**Name:Joel**

**Occupation:student**

Post request to fetch data from form and display

```
// Full Documentation - https://docs.turbo360.co
const express = require('express')
const router = express.Router()

/* This is the home route. It renders the index.mustache page from the views directory.
   Data is rendered using the Mustache templating engine. For more
   information, view here: https://mustache.github.io/#demo */
router.get('/', (req, res) => {
  res.render('index', { text: 'This is the dynamic data. Open index.js from the routes directory to see.' })
})

router.post('/post', (req, res) => {
  const body = req.body

  res.json({
    conformation: 'success',
    data: body
  })
})

module.exports = router
```

index.mustache

```
<!DOCTYPE html>
```

```
<html dir="ltr" lang="en-US">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, user-scalable=no, initial-scale=1.0, maximum-  
scale=1.0, minimum-scale=1.0">
```

```
  <title>Welcome to Turbo 360</title>
```

```
  <link rel="shortcut icon"  
href="https://lh3.googleusercontent.com/MpmfR3zYPTojA03QbhGgwIHucmH5s4G2vbIIADYhODL488  
MQt_BuVztv9LYmJbhwkScYN0DIXuh4d10YMsLbWXT">
```

```
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-  
awesome.min.css">
```

```
  <link rel="stylesheet"  
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,300i,400,400i,500,500i,600,600i,7  
00,700i&subset=latin-ext">
```

```
  <link rel="stylesheet" href="https://cdn.turbo360-dev.com/admin/assets/scaffold/css/style.min.css" />
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
  <div class="root">
```

```
    <div class="col-md-10" style="text-align:center;margin-bottom:48px;">
```

```
    <h1> Welcome</h1>
```

```
    <hr/>
```

```
    <div style="background:#f9f9f9;border:1px solid:#ddd;border-radius:3px;">
```

```
      <form action="/post" method="POST">
```

```
        <div class="row">
```

```
          <div class="col-sm-4">
```

```
            <label>Enter Name</label></div><div class="col-sm-5"><input type="text"  
name="name"/></div></div>
```

```
          <div class="row">
```

```
<div class="col-sm-4"><label>Enter Occupation</label></div><div class="col-sm-5"><input type="text" name="occupation"/></div></div>
```

```
<div class="row">
```

```
<div class="col-sm-3"></div><div class="col-sm-2"> <input type="submit" value="Submit"/></div></div>
```

```
</form>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

← → ↻ ⓘ localhost:3000

Apps Academic Enterpris... World Cup 2019, Cr... ONT iCREM APJ Abdul Kalam Te... Internet Access Port... Online Courses - A... Kerala Pub

## Welcome

Enter Name

Enter Occupation

Submit

← → ↻ ⓘ localhost:3000/post

Apps Academic Enterpris... World Cup 2019, Cr... ONT iCREM APJ Abdul Kalam Te...

## Welcome

Enter Name

Enter Occupation

Submit

```
{"conformation":"success","data":{"name":"Joe Tom Thomas","occupation":"Student"}}
```

Trying reg by adding register in routes

Add register.js in routes

```
const express = require('express')
const router = express.Router()

router.post('/user',(req,res)=>{
  const body=req.body

  res.json({
    confirmation:"Success",
    route:"register",
    data:body
  })
})
```

module.exports = router

make changes in ../app.js

```
const vertex = require('vertex360')({ site_id: process.env.TURBO_APP_ID })
const express = require('express')

const app = express() // initialize app

const config = {
  views: 'views', // Set views directory
  static: 'public', // Set static assets directory
  logging: true,
}

vertex.configureApp(app, config)

// import routes
const index = require('./routes/index')
const register = require('./routes/register')
// set routes
app.use('/', index)
app.use('/register',register)
module.exports = app
```

localhost:3000/register/user

Apps Academic Enterpris... World Cup 2019, Cr... ONT iCREM

» Reading list

```
{"confirmation":"Success","route":"register","data":{"name":"Joe Tom Thomas","occupation":"Student"}}
```

Creating profile and display

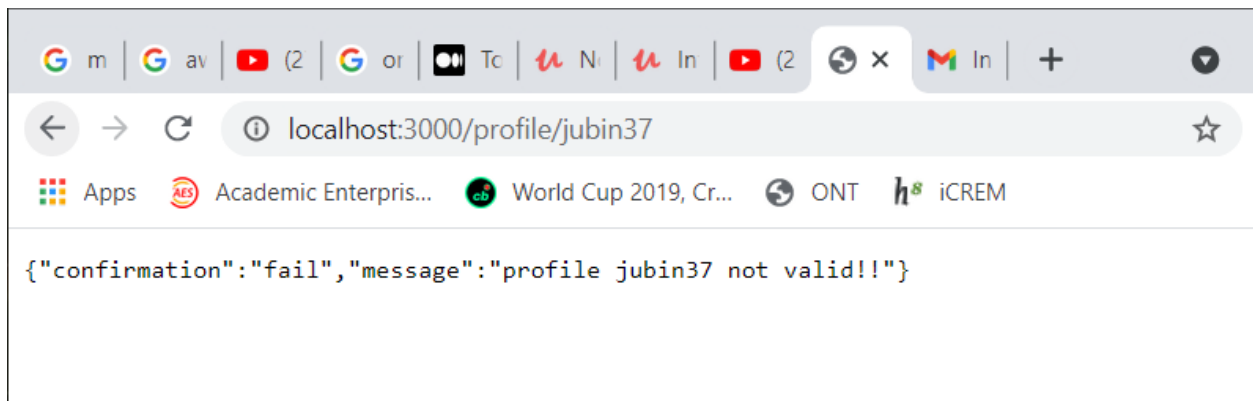
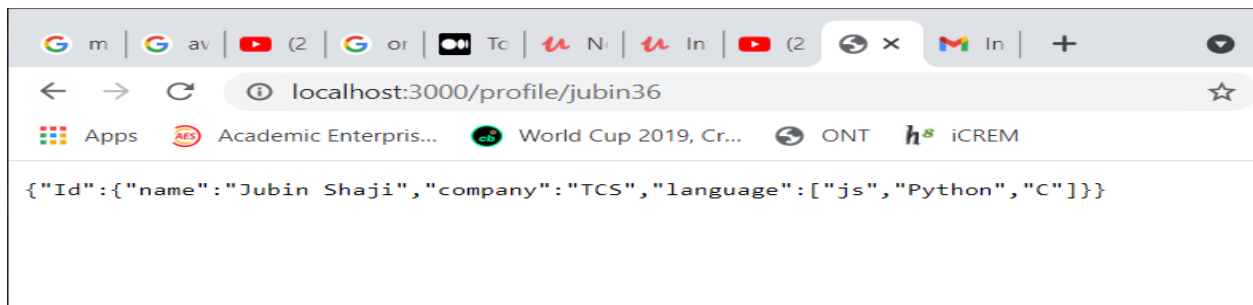
```
const express = require('express')
const router = express.Router()
const profiles={
  joe35:{
    name:'Joe Tom',
    company:'IIM',
    language:['js','Python','c++']
  },
  jubin36:{
    name:'Jubin Shaji',
    company:'TCS',
    language:['js','Python','C']
  },
  justine37:{
    name:'Justine Joseph',
    company:'Infosys',
    language:['Java','Python','c++']
  }
}

router.get('/:profile/:username',(req,res)=>{
  const profile=req.params.profile
  const username=req.params.username
  const profilenm=profiles[username]

  if(profilenm ==null){
    res.json({
      confirmation:'fail',
      message:'profile '+username +' not valid!!'
    })
  }
  res.json({
    Id:profilenm,

  })
})

module.exports = router
```



Pass values to another page:

```
<html>
<head>
</head>
<body>
<h1>Name:{{name}}</h1>
<h2>Company:{{company}}</h2>
</body>
</html>
```

```
const express = require('express')
const router = express.Router()
const profiles={
  joe35:{
    name:'Joe Tom',
    company:'IIM',
    language:['js','Python','c++']
  },
  jubin36:{
    name:'Jubin Shaji',
    company:'TCS',
```



```

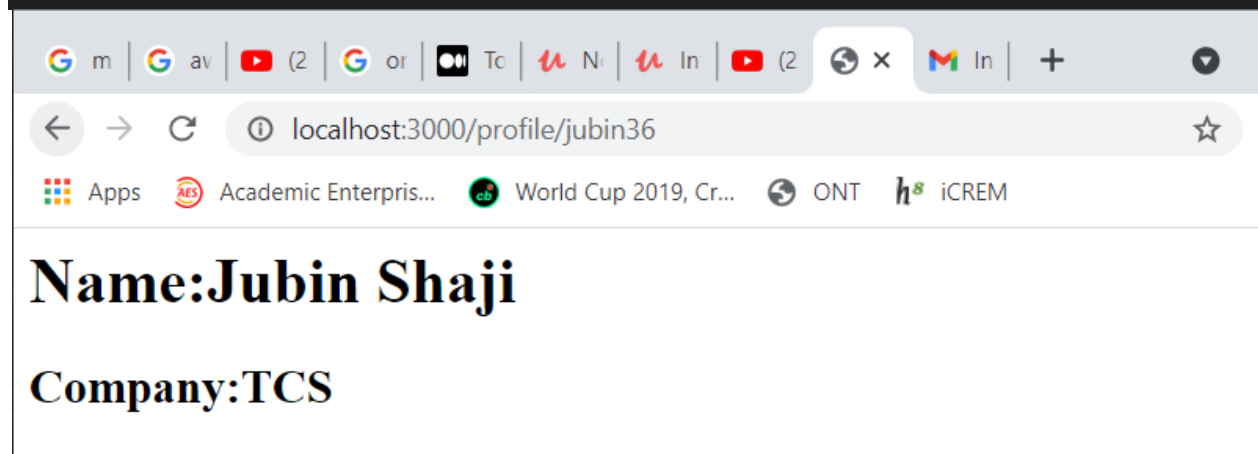
    language:['js','Python','C']
  },
  justine37:{
    name:'Justine Joseph',
    company:'Infosys',
    language:['Java','Python','c++']
  }
}

router.get('/:profile/:username',(req,res)=>{
  const profile=req.params.profile
  const username=req.params.username
  const profilenm=profiles[username]

  if(profilenm ==null){
    res.json({
      confirmation:'fail',
      message:'profile '+username +' not valid!!'
    })
  }
  res.render('profile',profilenm)
})

module.exports = router

```



Add new profile using form:

Profile.mustache

<html>

<head>

</head>

```

<body>
<h1>Name:{{name}}</h1>
<h2>Company:{{company}}</h2>
<h3>Languages</h3>
<ol>
  {{#language}}
<li>
  {{.}}
</li>
  {{/language}}
</ol>
<form action="/addprofile" method="post">
  <input type="text" name="name" placeholder="Name"/><br/>
  <input type="text" name="username" placeholder="Username"/><br/>
  <input type="text" name="company" placeholder="company"/><br/>
  <input type="text" name="language" placeholder="Languages"/><br/>
  <input type="submit" value="add profile"/>
</form>
</body>
</html>

```

Index.js

```

const express = require('express')
const router = express.Router()
const profiles={
  joe35:{
    name:'Joe Tom',
    company:'IIM',
    language:['js','Python','c++']
  },
  jubin36:{
    name:'Jubin Shaji',
    company:'TCS',
    language:['js','Python','C']
  }
}

```

```

    },
    justine37:{
      name:'Justine Joseph',
      company:'Infosys',
      language:['Java','Python','c++']
    }
  }

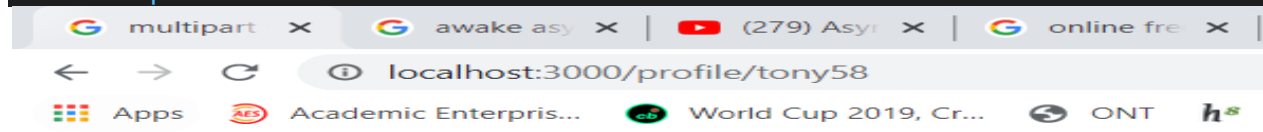
router.post('/addprofile',(req,res)=>{
  const body=req.body
  body['language']=req.body.language.split(",")
  profiles[body.username]=body
  res.redirect('/profile/'+body.username)
})

router.get('/:profile/:username',(req,res)=>{
  const profile=req.params.profile
  const username=req.params.username
  const profilenm=profiles[username]

  if(profilenm ==null){
    res.json({
      confirmation:'fail',
      message:'profile '+username +' not valid!!'
    })
  }
  res.render('profile',profilenm)
})

module.exports = router

```



**Name:tony**

**Company:faceprep**

**Languages**

1. HTML
2. JS
3. PHP

Name
Username
company
Languages
add profile

Add image and css

```
<html>

<head>

<link rel="stylesheet" href="/css/bootstrap.css" type="text/css"/>
<link rel="stylesheet" href="/css/style.css" type="text/css"/>
</head>

<body>
<div class="container">

<h1>{{name}}</h1>
<h2>Company:{{company}}</h2>
<h3>Languages</h3>
<ol>
  {{#language}}
<li>
  {{.}}
</li>
  {{/language}}
</ol>
<form action="/addprofile" method="post">
  <input type="text" name="name" placeholder="Name"/><br/>
  <input type="text" name="image" placeholder="Image(/images/example.jpg)"/><br/>
  <input type="text" name="username" placeholder="Username"/><br/>
  <input type="text" name="company" placeholder="company"/><br/>
  <input type="text" name="language" placeholder="Languages"/><br/>
  <input type="submit" value="add profile"/>
</form>
</div>
</body>
```

</html>

Style.css

```
h1{
  color:red;
  text-transform: capitalize;
}
.profile-image{
  max-width:360px;
  max-height: 300px;
}
```

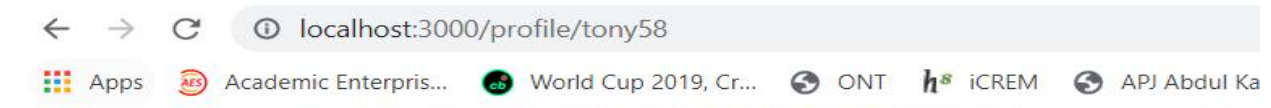
Index.js

```
const express = require('express')
const router = express.Router()
const profiles={
  joe35:{
    image:'/images/download.jfif',
    name:'Joe Tom',
    company:'IIM',
    language:['js','Python','c++']
  },
  jubin36:{
    image:'/images/download (1).jfif',
    name:'Jubin Shaji',
    company:'TCS',
    language:['js','Python','C']
  }
}

router.post('/addprofile',(req,res)=>{
  const body=req.body
  body['language']=req.body.language.split(",")
  profiles[body.username]=body
  res.redirect('/profile/'+body.username)
})
router.get('/:profile/:username',(req,res)=>{
  const profile=req.params.profile
  const username=req.params.username
  const profilenm=profiles[username]

  if(profilenm ==null){
```

```
res.json({
  confirmation:'fail',
  message:'profile '+username +' not valid!!'
})
}
res.render('profile',profilenm)
})
module.exports = router
```



Tony

Company:faceprep

Languages

1. HTML
2. JS
3. PHP

Name
Image(/images/example.jpg)
Username
company
Languages
add profile

Profile.mustache

```
<html>

<head>

<link rel="stylesheet" href="/css/bootstrap.css" type="text/css"/>
<link rel="stylesheet" href="/css/style.css" type="text/css"/>
</head>

<body>

<span>{{timestamp}}</span>

<div class="container">



<h1>{{name}}</h1>
<h2>Company:{{company}}</h2>
<h3>Languages</h3>

<ol>

  {{#language}}

    <li>

      {{.}}

    </li>

  {{/language}}

</ol>

<form action="/addprofile" method="post">

  <input type="text" name="name" placeholder="Name"/><br/>

  <input type="text" name="image" placeholder="Image(/images/example.jpg)"/><br/>

  <input type="text" name="username" placeholder="Username"/><br/>

  <input type="text" name="company" placeholder="company"/><br/>

  <input type="text" name="language" placeholder="Languages"/><br/>

  <input type="submit" value="add profile"/>

</form>
```

```
</div>
</body>
</html>
Profiles.mustache
<html>
<head>
<link rel="stylesheet" href="/css/bootstrap.css" type="text/css"/>
<link rel="stylesheet" href="/css/style.css" type="text/css"/>
</head>
<body>
<div class="container">
<span>{{timestamp}}</span>
<h1>Profiles</h1>
    <ol>
        {{#profiles}}
            <li><a href="/profile/{{username}}">{{name}}</a></li>
        {{/profiles}}
    </ol>
    <form action="/addprofile" method="post">
        <input type="text" name="name" placeholder="Name"/><br/>
        <input type="text" name="image" placeholder="Image(/images/example.jpg)"/><br/>
        <input type="text" name="username" placeholder="Username"/><br/>
        <input type="text" name="company" placeholder="company"/><br/>
        <input type="text" name="language" placeholder="Languages"/><br/>
        <input type="submit" value="add profile"/>
    </form>
</div>
</body>
</html>
```



Index.js

```
const express = require('express')
const router = express.Router()

const profiles={
  joe35:{
    username:'joe35',
    image:'/images/download.jfif',
    name:'Joe Tom',
    company:'IIM',
    language:['js','Python','c++']
  },
  jubin36:{
    username:'jubin36',
    image:'/images/download (1).jfif',
    name:'Jubin Shaji',
    company:'TCS',
    language:['js','Python','C']
  }
}

router.get('/', (req, res) => {
  res.render('index', { text: 'This is the dynamic data. Open index.js from the routes directory to see.' })
})

// router.post('/post',(req,res)=>{
//   const body=req.body

//   res.json({
//     conformation:'success',
//     data:body
//   })
// })

router.get('/profiles',(req,res)=>{
  const keys=Object.keys(profiles)
  const list=[]
  keys.forEach(key=>{
    list.push(profiles[key])
  })

  const data={
    profiles:list,
  }
})
```

```

    timestamp:req.timestamp
  }
  res.render('profiles',data)
})

router.get('/:profile/:username',(req,res)=>{
  const profile=req.params.profile
  const username=req.params.username
  const profilenm=profiles[username]

  if(profilenm ==null){
    res.json({
      confirmation:'fail',
      message:'profile '+username +' not valid!!'
    })
  }

  profilenm.timestamp=req.timestamp
  res.render('profile',profilenm)
})

module.exports = router

```

← → ↻ ⓘ localhost:3000/profiles

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# Profiles

1. [Joe Tom](#)
2. [Jubin Shaji](#)

Name
Image(/images/example.jpg)
Username
company
Languages
<input type="button" value="add profile"/>

If we click on any one of the profiles shown it will redirect to the profile of each person.

Timestamp added in each page using middleware function



Joe Tom

Company:IIM

Languages

1. js
2. Python
3. c++

Name
Image(/images/example.jpg)
Username
company
Languages
add profile

Intro to Node JS & Express

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