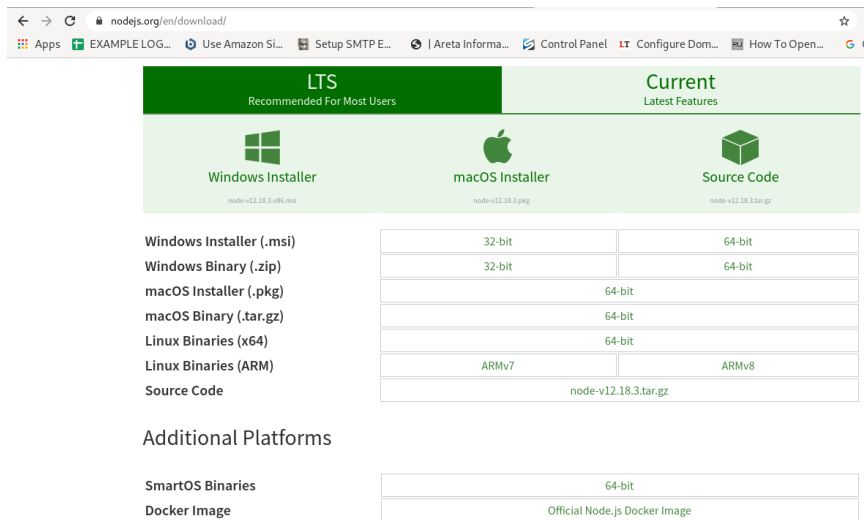


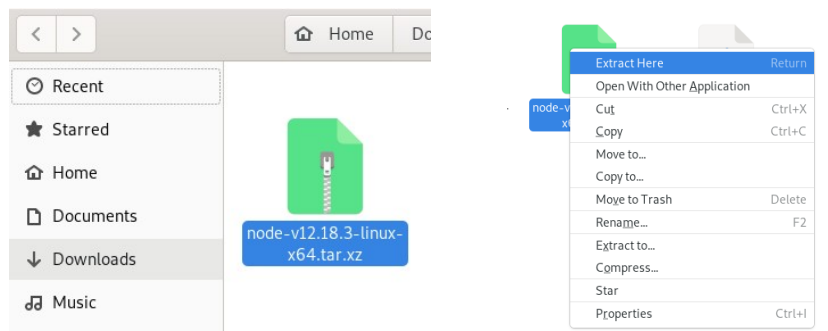
# GatsbyJs Bootcamp untuk Membangun Website Hebat dan Modern

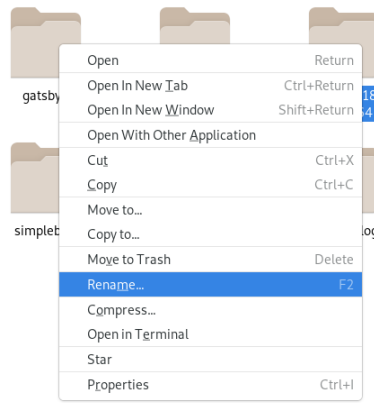
## Creating a Gatsby Site

### Instalasi nodejs



1. Download file instalasinya di <https://nodejs.org/eng>
2. Pilih paket sesuai dengan sistem operasi yang anda gunakan, sebagai contoh saya menggunakan linux maka saya pilih paket yang support untuk Linux. Seperti gambar di bawah. Klik kanan file pada mouse untuk ekstrak file, Pilih **Extract Here**.





3. Saya berinama folder misalnya menjadi nodejs seperti gambar berikut:



### Instalasi gatsby:

1. Buka terminal atau konsol ketikkan perintah untuk masuk ke folder Desktop/nodejs.

```
$ cd Desktop/nodejs/bin/
```

2. Install gatsby-cli dengan perintah npm:

```
$ sudo ./npm i g gatsby-cli
```

```
[syukrie@192 ~]$ cd Desktop/nodejs/bin/
[syukrie@192 bin]$ sudo ./npm i -g gatsby-cli
[sudo] password for syukrie:
[syukrie@192 bin]$
```

3. Jika berhasil, akan tampil pesan sebagai berikut:

```
+ gatsby-cli@2.12.87
updated 1 package in 29.508s

New patch version of npm available! 6.14.7 → 6.14.8
Changelog: https://github.com/npm/cli/releases/tag/v6.14.8
Run npm install -g npm to update!

[syukrie@192 bin]$
```

4. Install repository gatsby dengan cara masuk ke folder Desktop dengan perintah:

```
$ cd Desktop/
```

5. Install repository gatsby-starter-hello-world

```
$ gatsby new gatsby-bootcamp https://github.com/gatsbyjs/gatsby-starter-hello-world
```

6. Jika sukses akan ada informasi berikut:

*Your new Gatsby site has been successfully bootstrapped. Start developing it by running:*

*cd gatsby-bootcamp*

*gatsby develop*

7. Masuk ke folder gatsby-bootcamp dengan perintah:

*\$ cd gatsby-bootcamp*

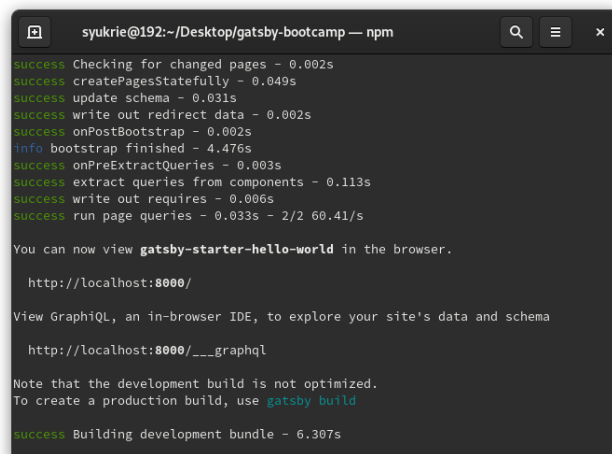
8. Untuk uji coba repository gatsby js jalankan perintah:

*\$ npm run develop*

atau

*\$ gatsby develop*

9. Jika sukses akan ada informasi seperti berikut:

A terminal window titled 'syukrie@192:~/Desktop/gatsby-bootcamp — npm' showing the output of the 'gatsby develop' command. The output includes various success and info messages with timestamps, such as 'Checking for changed pages - 0.002s', 'createPagesStatefully - 0.049s', 'update schema - 0.031s', 'write out redirect data - 0.002s', 'onPostBootstrap - 0.002s', 'bootstrap finished - 4.476s', 'onPreExtractQueries - 0.003s', 'extract queries from components - 0.113s', 'write out requires - 0.006s', and 'run page queries - 0.033s - 2/2 60.41/s'. It also provides the URL 'http://localhost:8000/' and the GraphQL endpoint 'http://localhost:8000/\_\_\_graphql'. A note mentions that the development build is not optimized and suggests using 'gatsby build' for a production build. The final message is 'Building development bundle - 6.307s'.

```
syukrie@192:~/Desktop/gatsby-bootcamp — npm
success Checking for changed pages - 0.002s
success createPagesStatefully - 0.049s
success update schema - 0.031s
success write out redirect data - 0.002s
success onPostBootstrap - 0.002s
info bootstrap finished - 4.476s
success onPreExtractQueries - 0.003s
success extract queries from components - 0.113s
success write out requires - 0.006s
success run page queries - 0.033s - 2/2 60.41/s

You can now view gatsby-starter-hello-world in the browser.

  http://localhost:8000/

View GraphQL, an in-browser IDE, to explore your site's data and schema

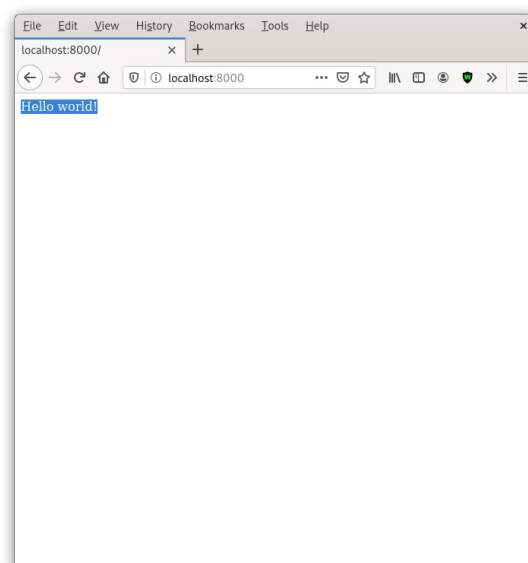
  http://localhost:8000/___graphql

Note that the development build is not optimized.
To create a production build, use gatsby build

success Building development bundle - 6.307s
```

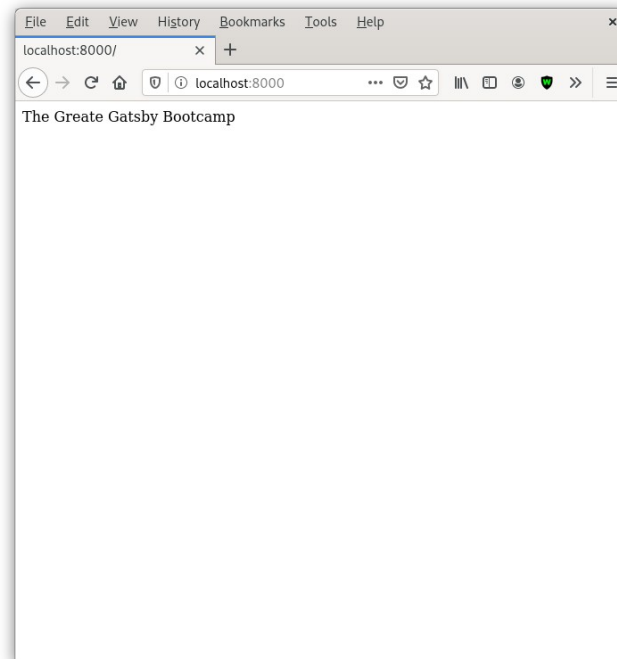
10. Buka aplikasi browser, jalankan dengan mengetikkan alamat url: localhost:8000

11. Jika berhasil akan tampil di halaman browser anda tulisan Hello world!



## Mulai Project GatsbyJs

1. Pada terminal masuk ke folder src/pages  
*\$ cd src/pages*
2. Anda dapat memulai dengan mengetikkan file index.js. Gunakan text editor untuk memulai mengedit/menuliskan script program. Sebagai contoh saya menggunakan text editor vi/vim.  
*\$ vi index.js*
3. Isi file index.js seperti berikut:  
*import React from "react"*  
*export default function Home() {*  
 *return <div>**Hello world!**</div>*  
*}*
4. Anda coba ganti file “*Hello world!*” dengan “*The Greate Gatsby Bootcamp*”
5. Coba buka browser anda, otomatis hasilnya akan menampilkan seperti gambar berikut:



## Working with Gatsby Pages

Modifikasi file index.js di folder src/pages

1. Edit file dengan text editor anda dengan perintah:  
*\$ vi index.js*  
*import React from 'react'*  
  
*const IndexPage = () => {*  
 *return (*  
 *<div>*  
 *<h1>Halo.</h1>*

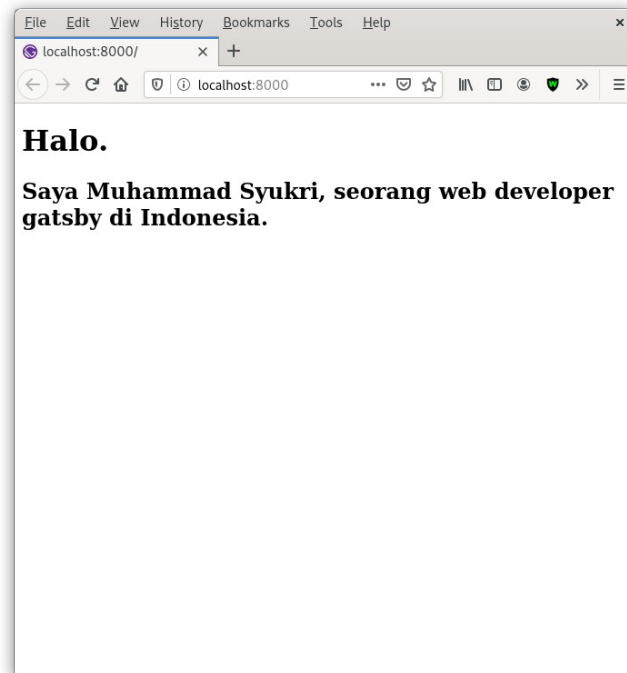
```

    <h2>Saya Muhammad Syukri, seorang web developer gatsby di Indonesia.</h2>
  </div>
)
}

```

```
export default IndexPage
```

2. Hasilnya akan terlihat seperti gambar berikut:



3. Buat file blog.js di folder src/pages dengan perintah:

```
$ vi blog.js
```

```
import React from 'react'
```

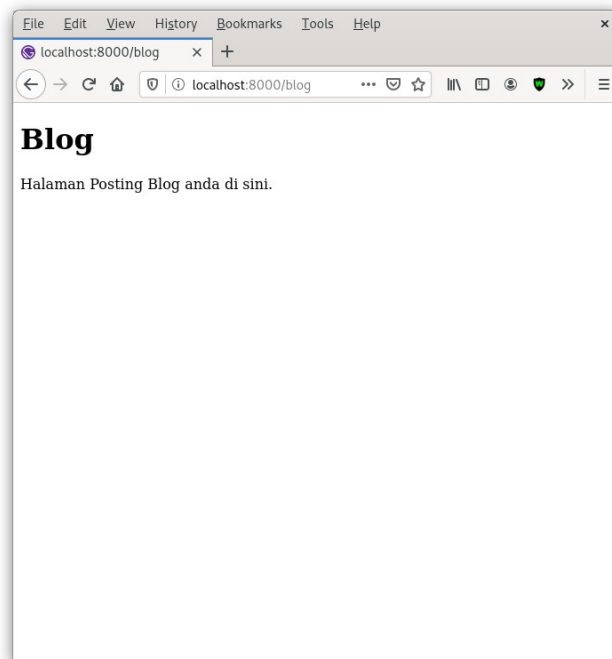
```

const BlogPage = () => {
  return (
    <div>
      <h1>Blog</h1>
      <p>Halaman Posting Blog anda di sini.</p>
    </div>
  )
}

```

```
export default BlogPage
```

4. Akses alamat localhost:800/blog di broser anda Hasilnya akan terlihat di browser anda seperti berikut:



5. Buat file about.js di folder src/pages perintahnya:

```
$ vi about.js
```

```
import React from 'react'
```

```
const AboutPage = () => {
```

```
  return (
```

```
    <div>
```

```
      <h1>About Me</h1>
```

```
      <p>Saya bekerja di Areta Informatics College</p>
```

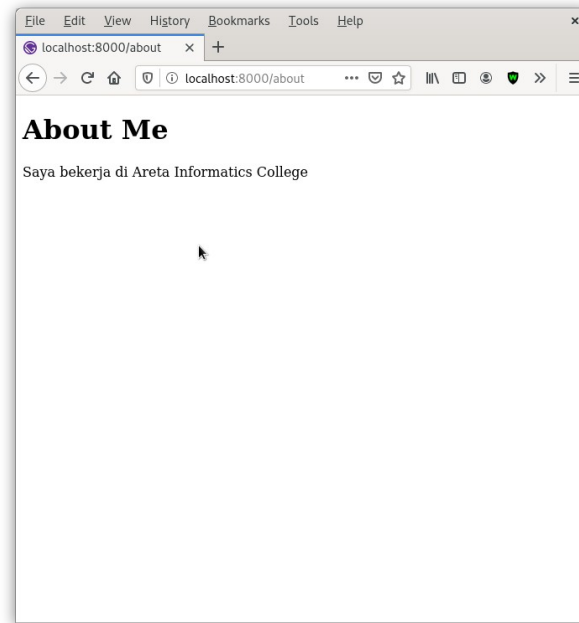
```
    </div>
```

```
  )
```

```
}
```

```
export default AboutPage
```

6. Hasilnya terlihat seperti gambar berikut:



7. Buat file `contact.js` di folder `src/pages` perintahnya:

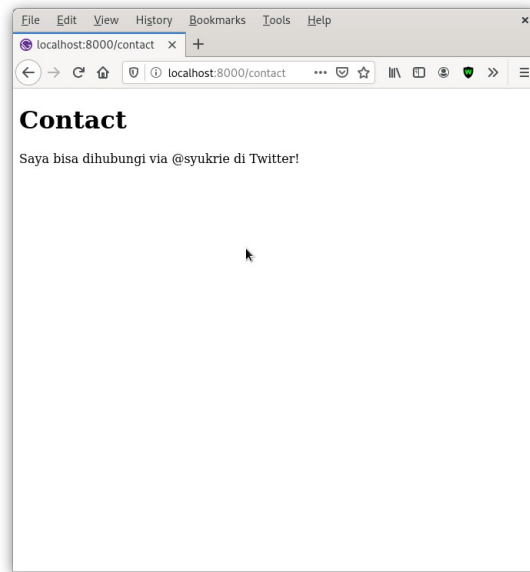
```
$ vi contact.js
```

```
import React from 'react'
```

```
const ContactPage = () => {  
  return (  
    <div>  
      <h1>Contact</h1>  
      <p>Saya bisa dihubungi via @syukrie di Twitter!</p>  
    </div>  
  )  
}
```

```
export default ContactPage
```

8. Hasilnya terlihat seperti gambar berikut:



### Linking Between Pages with Gatsby

1. Edit file index.php buat link menggunakan `<a href>`

```
import React from 'react'
```

```
const IndexPage = () => {  
  return (  
    <div>  
      <h1>Halo.</h1>  
      <h2>Saya Muhammad Syukri, seorang web developer gatsby di Indonesia.</h2>  
      <p>Mau jadi seorang developer? <a href="/contact">Hubungi Saya.</a></p>  
    </div>  
  )  
}
```

```
export default IndexPage
```

2. Edit file index.php untuk buat link menggunakan library Link

```
import React from 'react'
```

```
import { Link } from 'gatsby'
```

```
const IndexPage = () => {  
  return (  
    <div>  
      <h1>Halo.</h1>  
      <h2>Saya Muhammad Syukri, seorang web developer gatsby di Indonesia.</h2>  
      <p>Mau jadi seorang developer? <a href="/contact">Hubungi Saya.</a></p>  
      <p>Mau jadi seorang developer? <Link to="/contact">Hubungi Saya.</Link></p>  
    </div>  
  )  
}
```



```
}
```

```
export default IndexPage
```

3. Edit file contact.js untuk buat link kontak ke twitter.

```
import React from 'react'
```

```
import { Link } from 'react'
```

```
const ContactPage = () => {
```

```
  return (
```

```
    <div>
```

```
      <h1>Contact</h1>
```

```
      <p>Saya bisa dihubungi via <a href="https://twitter.com/@aretacollege" target="_blank">@aretacollege</a> di Twitter!</p>
```

```
    </div>
```

```
  )
```

```
}
```

```
export default ContactPage
```

4. Buat folder components di folder src

```
$ mkdir components
```

5. Buat file footer.js di folder src/components

```
$ cd components
```

```
$ vi footer.js
```

```
import React from 'react'
```

```
const Footer = () => {
```

```
  return (
```

```
    <footer>
```

```
      <p>Created by Muhammad Syukri, © 2020 </p>
```

```
    </footer>
```

```
  )
```

```
}
```

```
export default Footer
```

6. Buka file contact.js include file footer.js seperti berikut:

```
import React from 'react'
```

```
import Footer from '../components/footer' //tambahkan baris ini
```

```
const ContactPage = () => {
```

```
  return (
```

```
    <div>
```

```
      <h1>Contact</h1>
```

```
      <p>Saya bisa dihubungi via <a href="https://twitter.com/@aretacollege" target="_blank">@aretacollege</a>. di Twitter!</p>
```

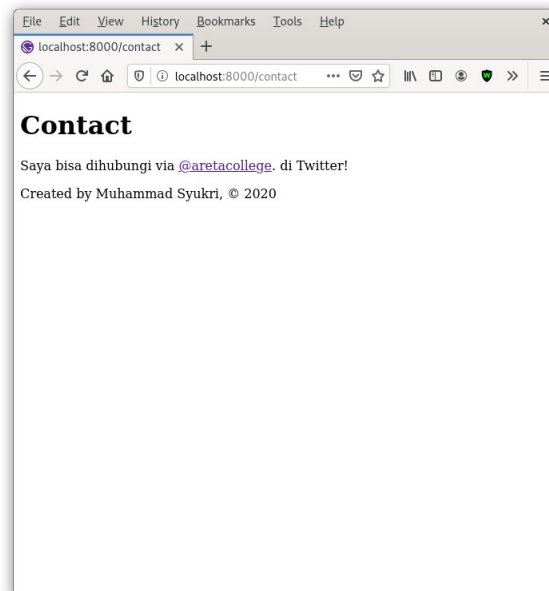
```

    <Footer /> //tambahkan baris ini
  </div>
)
}

```

```
export default ContactPage
```

7. Tampilan halaman contact.js seperti berikut:



8. Buka file about.js include file footer.js berikut contohnya:

```
import React from 'react'
```

```
import Footer from '../components/footer'
```

```

const AboutPage = () => {
  return (
    <div>
      <h1>About Me</h1>
      <p>Saya bekerja di Areta Informatics College</p>
      <Footer />
    </div>
  )
}

```

```
export default AboutPage
```

9. Buka file blog.js import file footer.js berikut contohnya:

```
import React from 'react'
```

```
import Footer from '../components/footer'
```

```
const BlogPage = () => {
```

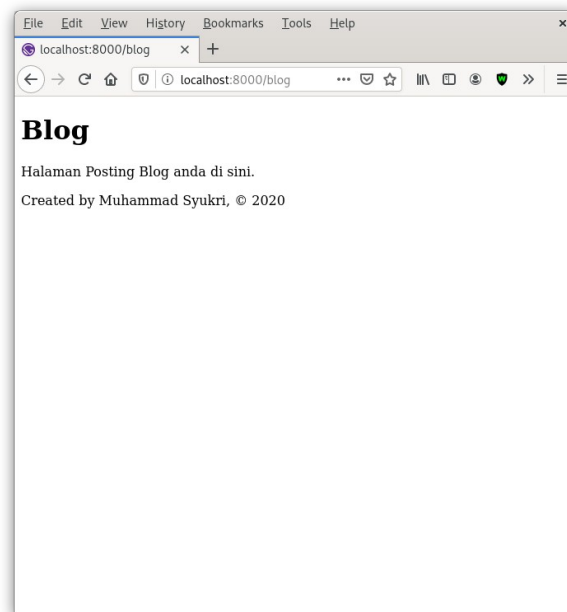
```

return (
  <div>
    <h1>Blog</h1>
    <p>Halaman Posting Blog anda di sini.</p>
    <Footer />
  </div>
)
}

export default BlogPage

```

10. Tampilan halaman blog seperti berikut:



11. Buka file index.js import file footer.js berikut contohnya:

```

import React from 'react'

import { Link } from 'gatsby'

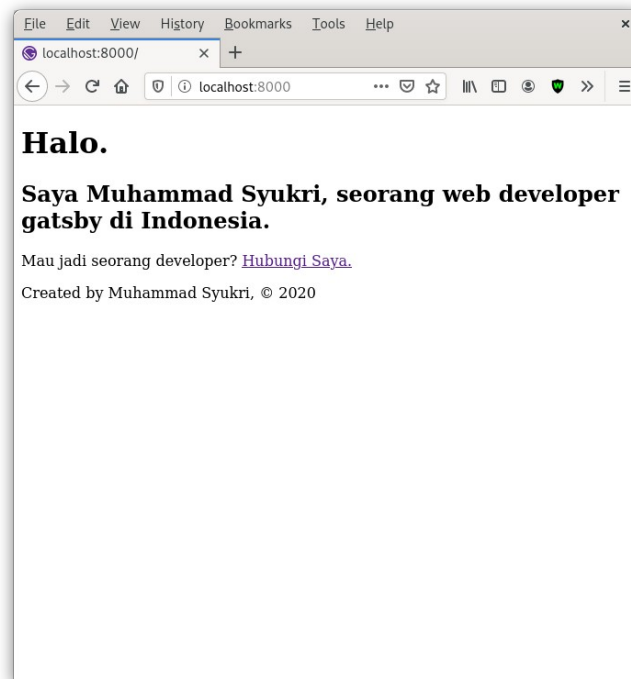
import Footer from '../components/footer'

const IndexPage = () => {
  return (
    <div>
      <h1>Halo.</h1>
      <h2>Saya Muhammad Syukri, seorang web developer gatsby di
Indonesia.</h2>
      <p>Mau jadi seorang developer? <Link to="/contact">Hubungi
Saya.</Link></p>
      <Footer />
    </div>
  )
}

```

*export default IndexPage*

12. Tampilan view index seperti terlihat gambar berikut:



13. Membuat file header.js berikut contohnya:

```
import React from 'react'
import { Link } from 'gatsby'

const Header = () => {
  return (
    <header>
      <h1>Muhammad Syukri</h1>
      <nav>
        <ul>
          <li>
            <Link to="/">Home</Link>
          </li>
          <li>
            <Link to="/blog">Blog</Link>
          </li>
          <li>
            <Link to="/about">About</Link>
          </li>
          <li>
            <Link to="/contact">Contact</Link>
          </li>
        </ul>
      </nav>
    </header>
  )
}
```

```
}
```

```
export default Header
```

14. Import file header.js ke file index.js berikut contohnya:

```
$ vi index.js
```

```
import React from 'react'
```

```
import { Link } from 'gatsby'
```

```
import Footer from '../components/footer'
```

```
import Header from '../components/header'
```

```
const IndexPage = () => {
```

```
  return (
```

```
    <div>
```

```
      <Header />
```

```
      <h1>Halo.</h1>
```

```
      <h2>Saya Muhammad Syukri, seorang web developer gatsby di  
Indonesia.</h2>
```

```
      <p>Mau jadi seorang developer? <Link to="/contact">Hubungi  
Saya.</Link></p>
```

```
      <Footer />
```

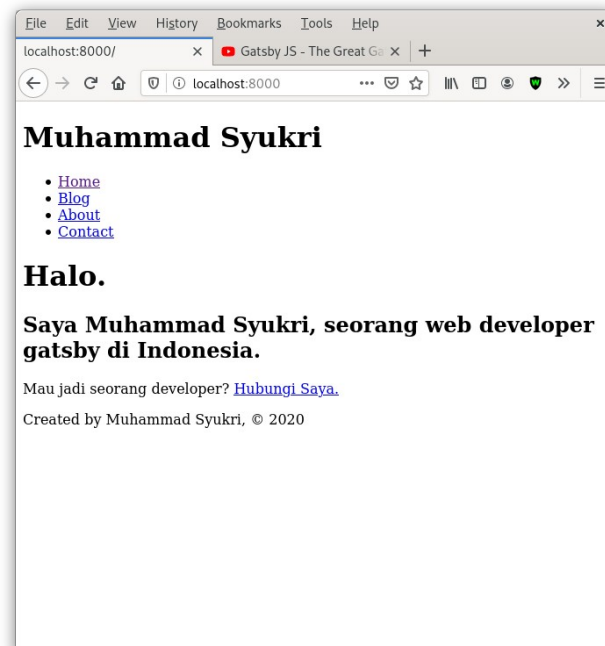
```
    </div>
```

```
  )
```

```
}
```

```
export default IndexPage
```

15. Tampilan view index akan terlihat seperti berikut:



16. Import file header.js ke blog.js berikut contohnya:

```
import React from 'react'
```

```

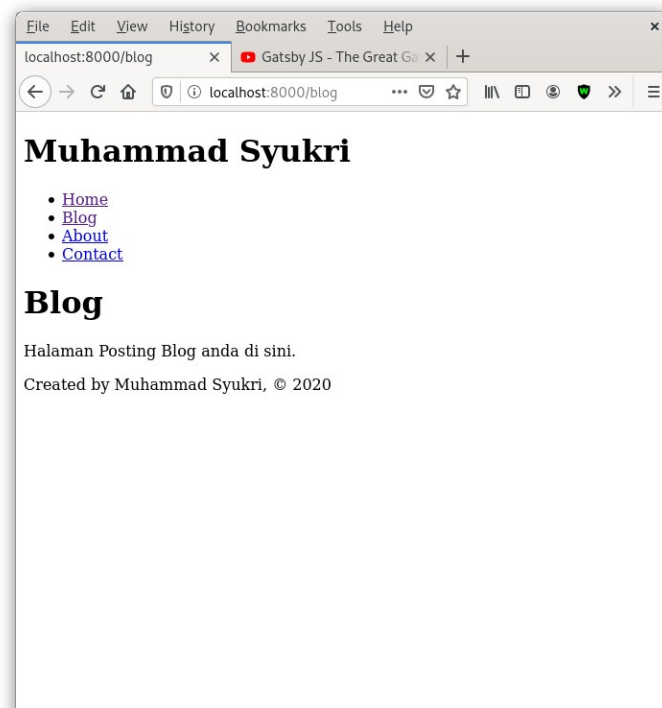
import Footer from '../components/footer'
import Header from '../component/header'

const BlogPage = () => {
  return (
    <div>
      <Header />
      <h1>Blog</h1>
      <p>Halaman Posting Blog anda di sini.</p>
      <Footer />
    </div>
  )
}

export default BlogPage

```

17. Hasil view halaman blog seperti berikut:



18. Import file header.js ke contact.js seperti contoh berikut:

```

import React from 'react'

import Footer from '../components/footer'
import Header from '../components/header'

const ContactPage = () => {
  return (
    <div>
      <Header />

```

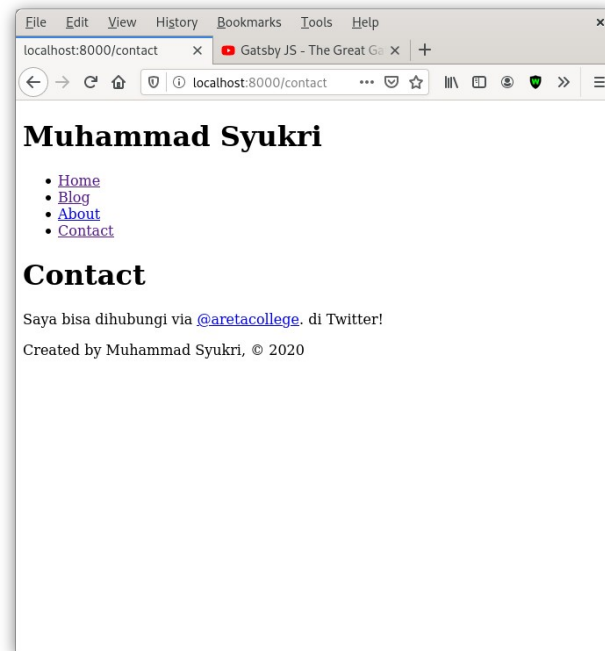
```

    <h1>Contact</h1>
    <p>Saya bisa dihubungi via <a href="https://twitter.com/@aretacollege"
target="_blank">@aretacollege</a>. di Twitter!</p>
    <Footer />
  </div>
)
}

export default ContactPage

```

19. Hasil view halaman contact seperti berikut:



20. Import file header.js ke file about.js berikut contohnya:

```

import React from 'react'

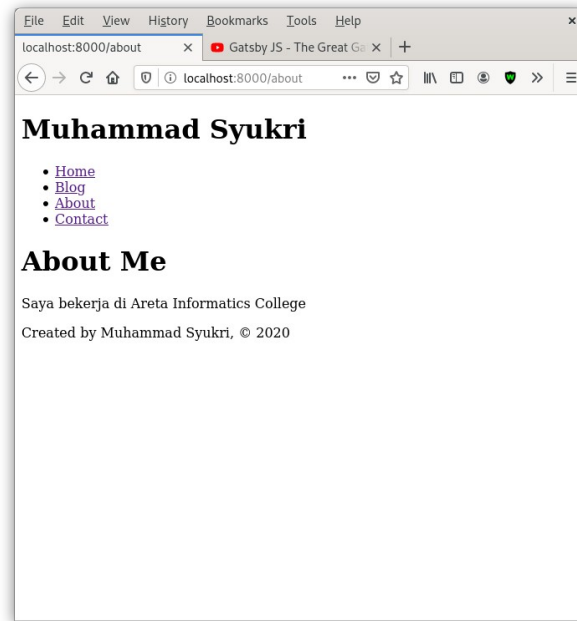
import Footer from '../components/footer'
import Header from '../components/header'

const AboutPage = () => {
  return (
    <div>
      <Header />
      <h1>About Me</h1>
      <p>Saya bekerja di Areta Informatics College</p>
      <Footer />
    </div>
  )
}

export default AboutPage

```

21. Hasil view halaman about seperti contoh berikut:



## Creating Gatsby Page Layouts

1. Buat file layout.js di folder components berikut contohnya:

```
import React from 'react'

const Layout = () => {
  return (
    <div>

    </div>
  )
}

export default Layout
```

2. Edit file index.js di folder src seperti contoh berikut:

```
import React from 'react'

import { Link } from 'gatsby'
import Layout from '../components/layout'
const IndexPage = () => {
  return (
    <div>
      <Layout>
        <h1>Halo.</h1>
        <h2>Saya Muhammad Syukri, seorang web developer gatsby di
Indonesia.</h2>
        <p>Mau jadi seorang developer? <Link to="/contact">Hubungi
Saya.</Link></p>
      </Layout>
    </div>
  )
}
```



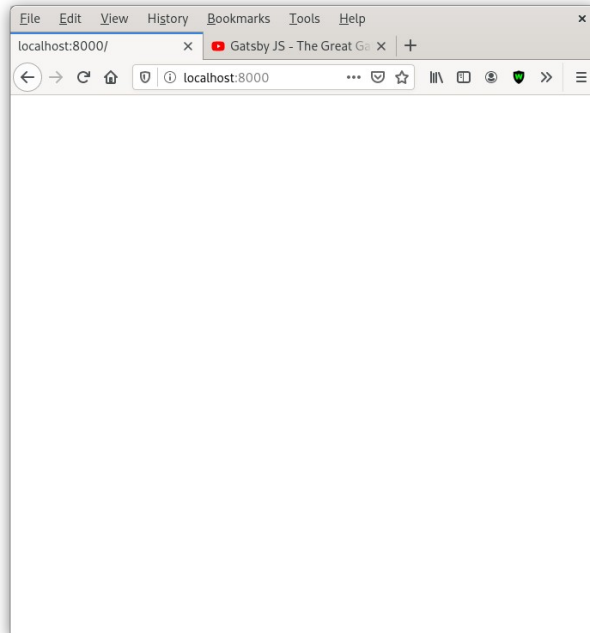
```

    </div>
  )
}

```

```
export default IndexPage
```

3. Hasil tampilan index nya akan terlihat kosong seperti berikut:



4. Agar halaman file index tampil edit file layout.js seperti berikut:

```

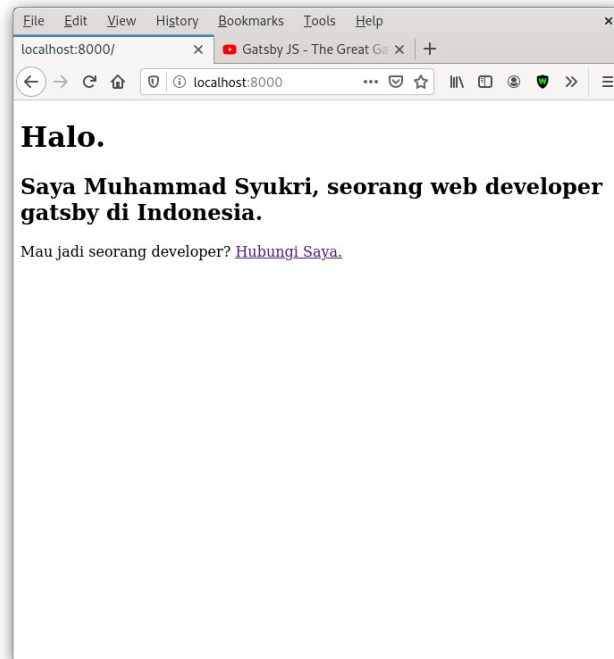
import React from 'react'

const Layout = (props) => {
  return (
    <div>
      {props.children}
    </div>
  )
}

export default Layout

```

5. Tampilan halaman index akan terlihat seperti berikut:



6. Import file header.js dan footer.js ke file file layout.js berikut contohnya:

```
import React from 'react'

import Header from './header'
import Footer from './footer'

const Layout = (props) => {
  return (
    <div>
      <Header />
      {props.children}
      <Footer />
    </div>
  )
}

export default Layout
```

7. Edit file index.js tambahkan baris **import Layout from './components/layout'** seperti berikut:

```
import React from 'react'

import { Link } from 'gatsby'
import Layout from './components/layout'

const IndexPage = () => {
  return (
    <div>
```

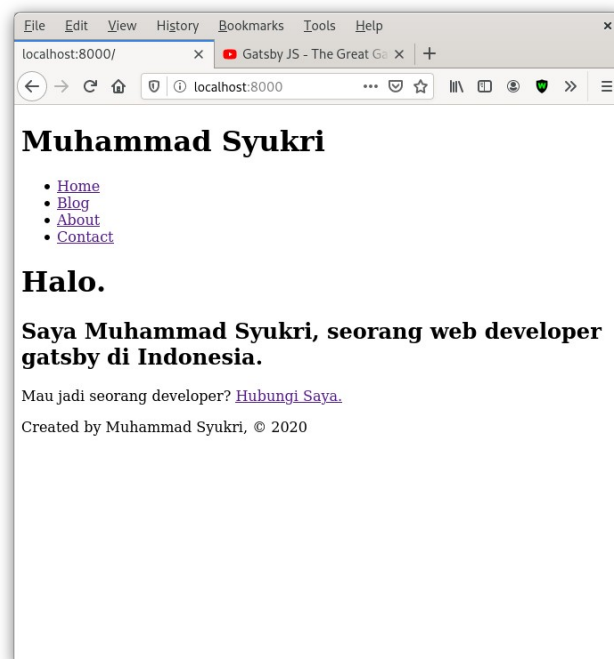
```

    <Layout>
      <h1>Halo.</h1>
      <h2>Saya Muhammad Syukri, seorang web developer gatsby di
Indonesia.</h2>
      <p>Mau jadi seorang developer? <Link to="/contact">Hubungi
Saya.</Link></p>
    </Layout>
  </div>
)
}

export default IndexPage

```

8. Tampilan halaman index akan terlihat seperti berikut:



9. Import file layout ke file blog.js seperti contoh berikut:

```

import React from 'react'

import Layout from '../components/layout'

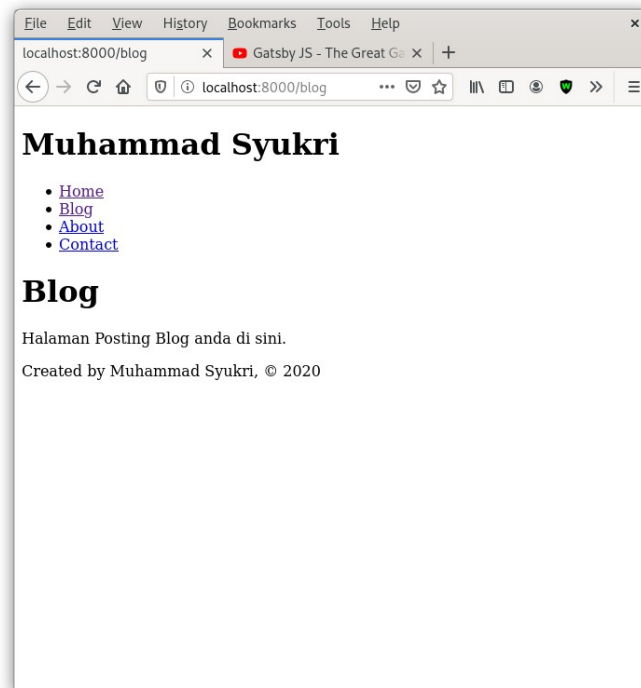
const BlogPage = () => {

  return (
    <div>
      <Layout>
        <h1>Blog</h1>
        <p>Halaman Posting Blog anda di sini.</p>
      </Layout>
    </div>
  )
}

```

*export default BlogPage*

10. Tampilan Halaman Blog seperti berikut:



11. Import file layout ke file blog.js seperti gambar berikut:

```
import React from 'react'

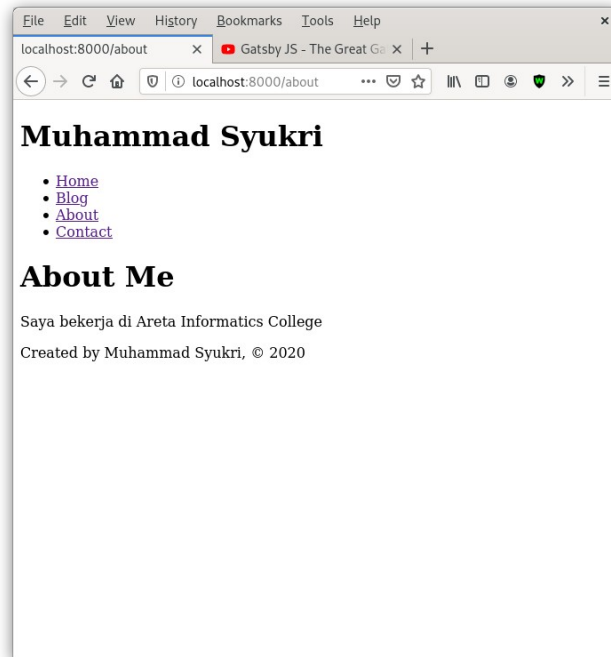
import Layout from '../components/layout'

const BlogPage = () => {

  return (
    <div>
      <Layout>
        <h1>Blog</h1>
        <p>Halaman Posting Blog anda di sini.</p>
      </Layout>
    </div>
  )
}

export default BlogPage
```

12. Tampilan halaman blog seperti berikut:



13. Import file layout ke file about.js seperti berikut:

```
import React from 'react'
```

```
import Layout from '../components/layout'
```

```
const ContactPage = () => {
```

```
  return (
```

```
    <div>
```

```
      <Layout>
```

```
        <Header />
```

```
        <h1>Contact</h1>
```

```
        <p>Saya bisa dihubungi via <a href="https://twitter.com/@aretacollege" target="_blank">@aretacollege</a>. di Twitter!</p>
```

```
      </Layout>
```

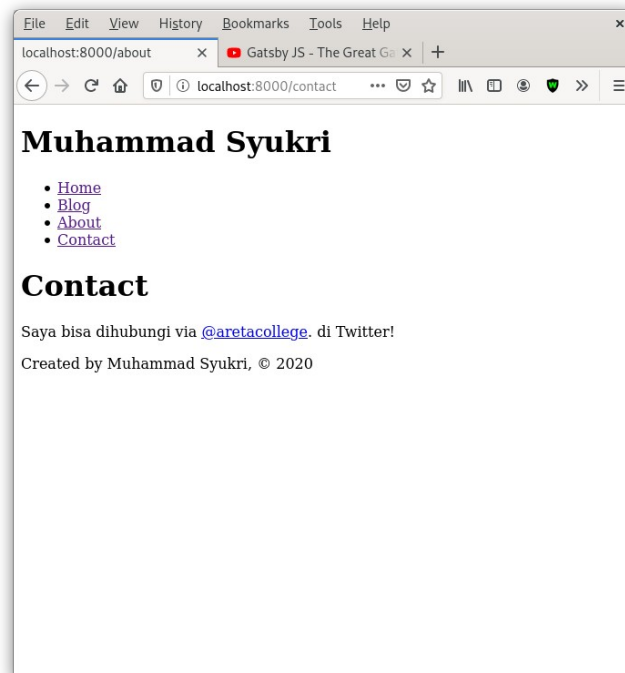
```
    </div>
```

```
  )
```

```
}
```

```
export default ContactPage
```

14. Tampilan halaman about seperti berikut:



### Styling Gatsby Projects

1. Buat folder styles di folder src, kemudian buat file index.css di folder styles. Berikut perintahnya:

```
$ mkdir styles
```

```
$ cd styles
```

```
$ vi index.css
```

```
* {  
  color: red;  
}
```

2. Import file index.css ke file layout.js seperti berikut:

```
import React from 'react'
```

```
import Header from './header'
```

```
import Footer from './footer'
```

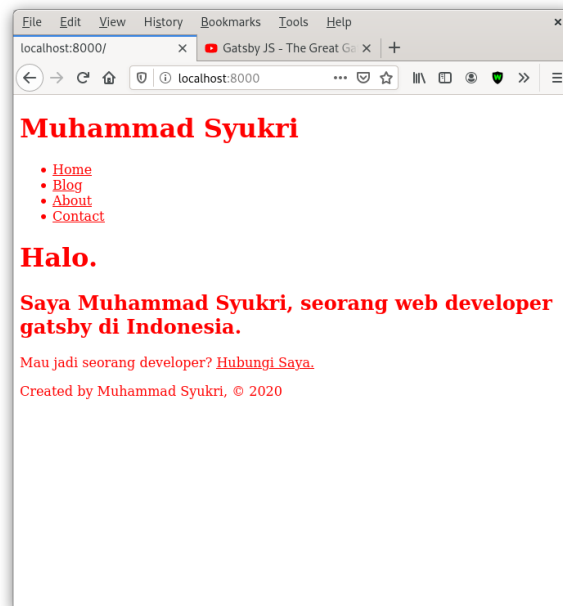
```
import './styles/index.css'
```

```
const Layout = (props) => {  
  return (  
    <div>  
      <Header />  
      {props.children}  
      <Footer />  
    </div>  
  )  
}
```

```
}
```

```
export default Layout
```

3. Hasil tampilan halamannya seperti berikut:



4. Install plugin sass/scss dengan perintah berikut:

```
$ npm install gatsby-plugin-sass node-sass
```

5. Jika berhasil install akan tampilan pesan berikut:

```
node-sass@4.14.1
+ gatsby-plugin-sass@2.3.12
added 103 packages from 100 contributors and audited 2086 packages in 72.242s

150 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

6. Edit file gatsby-config.js seperti berikut:

```
module.exports = {
  /* Your site config here */
  plugins: [
    'gatsby-plugin-sass'
  ],
}
```

7. Run gatsby dengan perintah berikut:

```
$ gatsby-develop
```

8. Jika benar maka akan tampil pesan berikut:

success Building development bundle - 6.893s

9. Rename file index.css menjadi index.scss seperti perintah berikut:

```
$ mv index.css index.scss
```

10. Edit file layout.js seperti berikut:

```
import React from 'react'
```

```
import Header from './header'
```

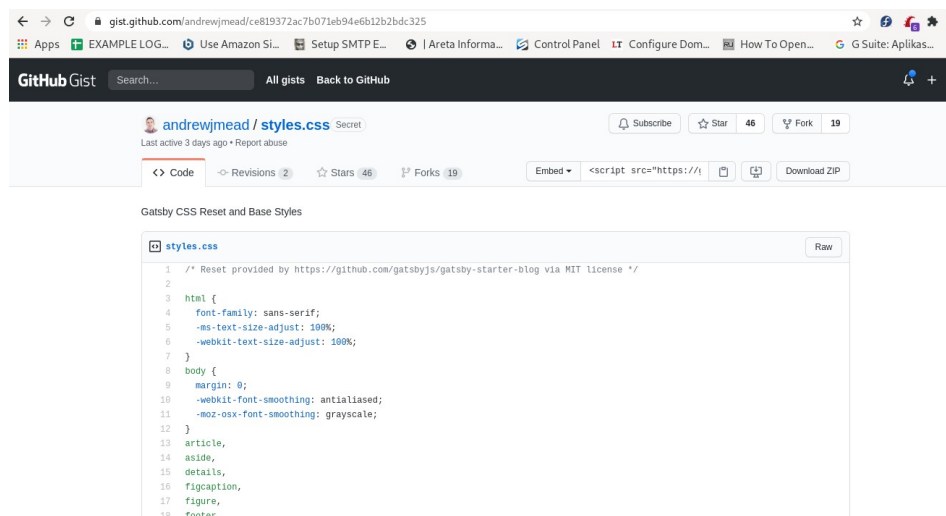
```
import Footer from './footer'
```

```
import '../styles/index.scss'
```

```
const Layout = (props) => {  
  return (  
    <div>  
      <Header />  
      {props.children}  
      <Footer />  
    </div>  
  )  
}
```

```
export default Layout
```

11. Download atau copy paste file styles.css di <https://links.mead.io/gatsbystyles>



12. Copy paste file style.css ke file index.scss seperti berikut:

```
/* Reset provided by https://github.com/gatsbyjs/gatsby-starter-blog via MIT license */
```

```
html {  
  font-family: sans-serif;  
  -ms-text-size-adjust: 100%;  
  -webkit-text-size-adjust: 100%;  
}  
--- dipotong---
```





## Styling Gatsby with CSS Modules

1. Buat file header.scss di folder components seperti berikut:

```
a {  
  color: #999999;  
}
```

2. Edit file header.js sebagai berikut:

```
import React from 'react'  
import { Link } from 'gatsby'  
  
import './header.scss'  
  
const Header = () => {  
  return (  
    <header>  
      <h1>Muhammad Syukri</h1>  
      <nav>  
        <ul>  
          <li>  
            <Link to="/">Home</Link>  
          </li>  
          <li>  
            <Link to="/blog">Blog</Link>  
          </li>  
          <li>  
            <Link to="/about">About</Link>  
          </li>  
          <li>  
            <Link to="/contact">Contact</Link>  
          </li>  
        </ul>  
      </nav>  
    </header>  
  )  
}  
  
export default Header
```