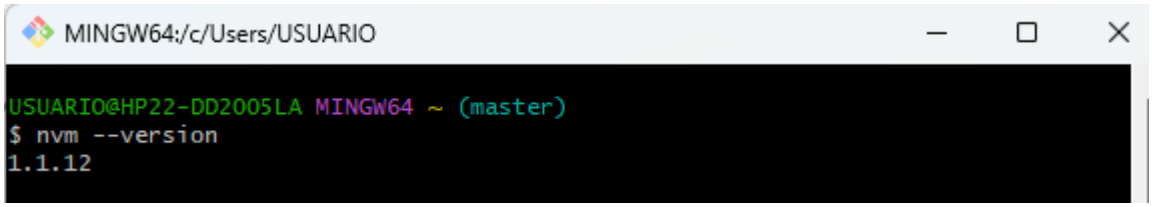
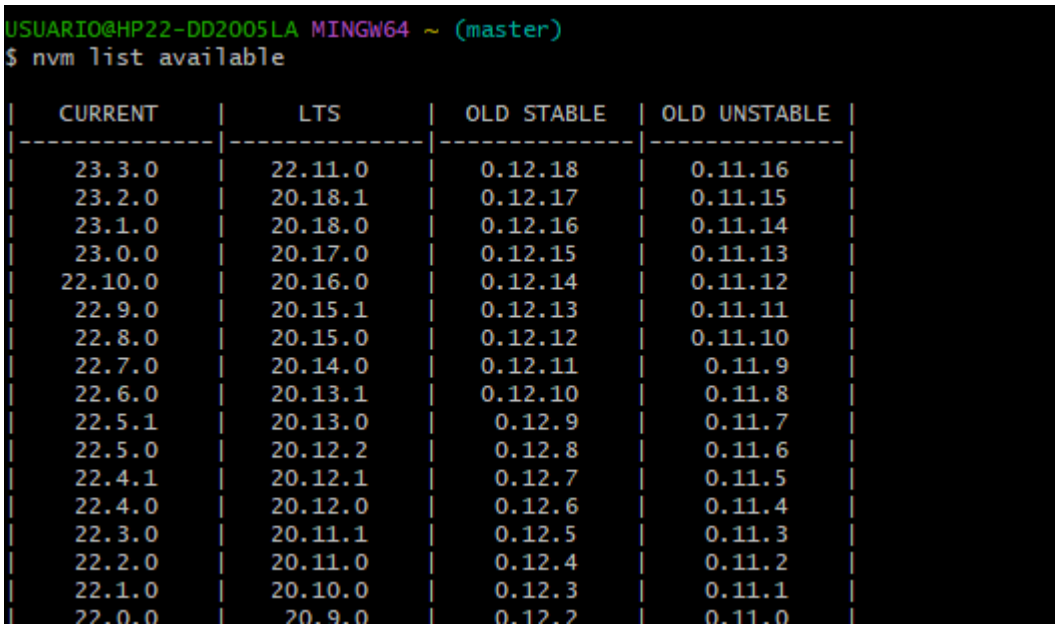
Practica de React

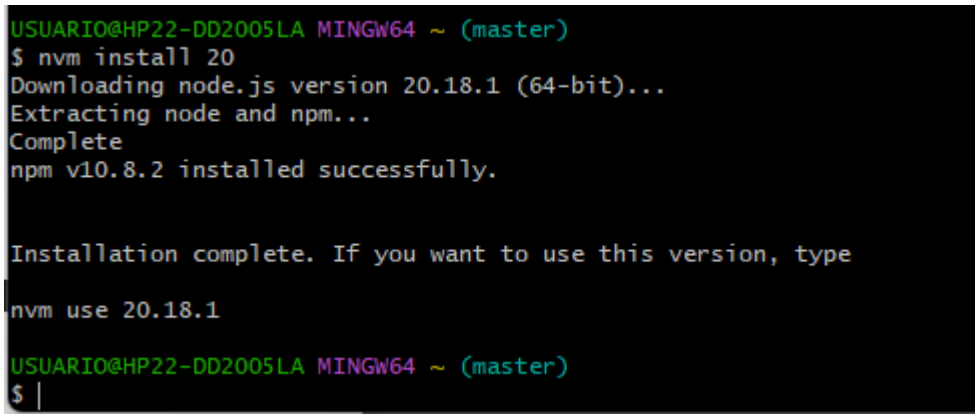
Después de haber instalado nodeman en mi pc, compruebo la versión con el siguiente comando:



Ahora uso el comando para ver todas las versiones de nodeman:



Hago la instalación de la versión 20:



Y posteriormente la utilizo.

```
USUARIO@HP22-DD2005LA MINGW64 ~ (master)
$ nvm use 20
Now using node v20.18.1 (64-bit)
```

Ahora realizaremos la práctica de React.

Creamos nuestra carpeta a través de los siguientes comandos:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS                powershell

PS C:\Users\USUARIO\Desktop\Ejercicios> cd ..
PS C:\Users\USUARIO\Desktop> mkdir "Practica"


    Directorio: C:\Users\USUARIO\Desktop


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        2/12/2024  3:35 p. m.                Practica


PS C:\Users\USUARIO\Desktop> cd "Practica"
PS C:\Users\USUARIO\Desktop\Practica>
```

Creamos el proyecto con VITE:

```
PS C:\Users\USUARIO\Desktop\Practica> npm create vite@latest "El Escondite Animal" -- --template react

> npx
> create-vite El Escondite Animal --template react

√ Package name: ... el-escondite-animal

Scaffolding project in C:\Users\USUARIO\Desktop\Practica\El Escondite Animal...

Done. Now run:

  cd "El Escondite Animal"
  npm install
  npm run dev

PS C:\Users\USUARIO\Desktop\Practica>
```

Ingresamos a la carpeta creada:

```
PS C:\Users\USUARIO\Desktop\Practica> cd "El Escondite Animal"
PS C:\Users\USUARIO\Desktop\Practica\El Escondite Animal> dir


    Directorio: C:\Users\USUARIO\Desktop\Practica\El Escondite Animal


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        2/12/2024  3:38 p. m.                public
d-----        2/12/2024  3:38 p. m.                src
-a----        2/12/2024  3:36 p. m.            253 .gitignore
-a----        2/12/2024  3:36 p. m.           1003 eslint.config.js
-a----        2/12/2024  3:36 p. m.            361 index.html
-a----        2/12/2024  3:38 p. m.            655 package.json
-a----        2/12/2024  3:36 p. m.            451 README.md
-a----        2/12/2024  3:36 p. m.            161 vite.config.js


PS C:\Users\USUARIO\Desktop\Practica\El Escondite Animal>
```

Descargamos las dependencias:

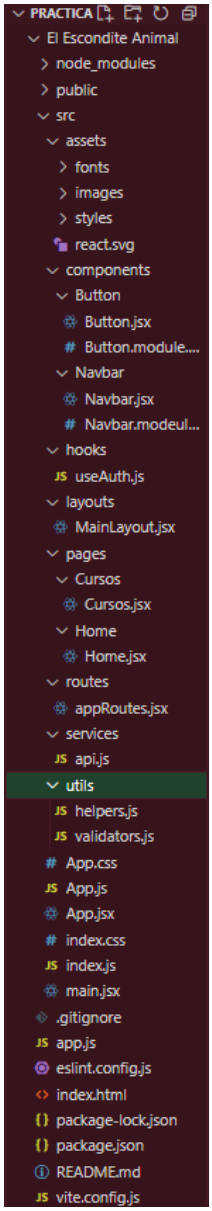
```
PS C:\Users\USUARIO\Desktop\Practica\El Escondite Animal> npm install

added 248 packages, and audited 249 packages in 2m

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

found 0 vulnerabilities
PS C:\Users\USUARIO\Desktop\Practica\El Escondite Animal>
```

```
PS C:\Users\USUARIO\Desktop\Practica\El Escondite Animal> npm install @mui/material @emotion/react @emotion/s
tyled

added 46 packages, and audited 295 packages in 56s

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

found 0 vulnerabilities
PS C:\Users\USUARIO\Desktop\Practica\El Escondite Animal>
```

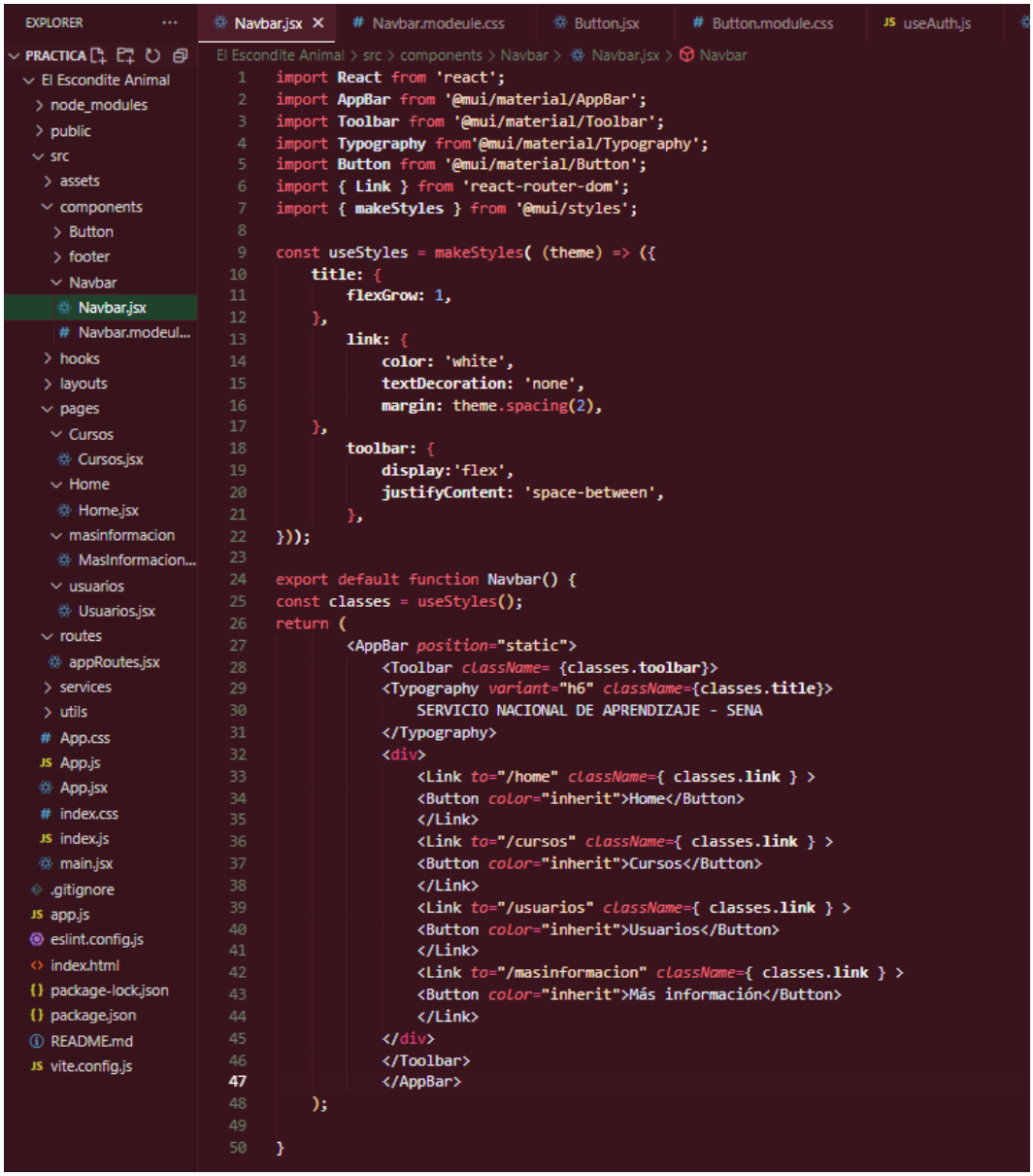
```
PS C:\Users\USUARIO\Desktop\Practica\El Escondite Animal> npm install react-router-dom @mui/styles

added 19 packages, and audited 314 packages in 14s

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

found 0 vulnerabilities
PS C:\Users\USUARIO\Desktop\Practica\El Escondite Animal>
```

```
PS C:\Users\USUARIO\Desktop\Practica\El Escondite Animal> npm install @mui/icons-material

added 1 package, and audited 315 packages in 6m

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

found 0 vulnerabilities
PS C:\Users\USUARIO\Desktop\Practica\El Escondite Animal>
```

Ahora abrimos visual y copiamos la estructura:

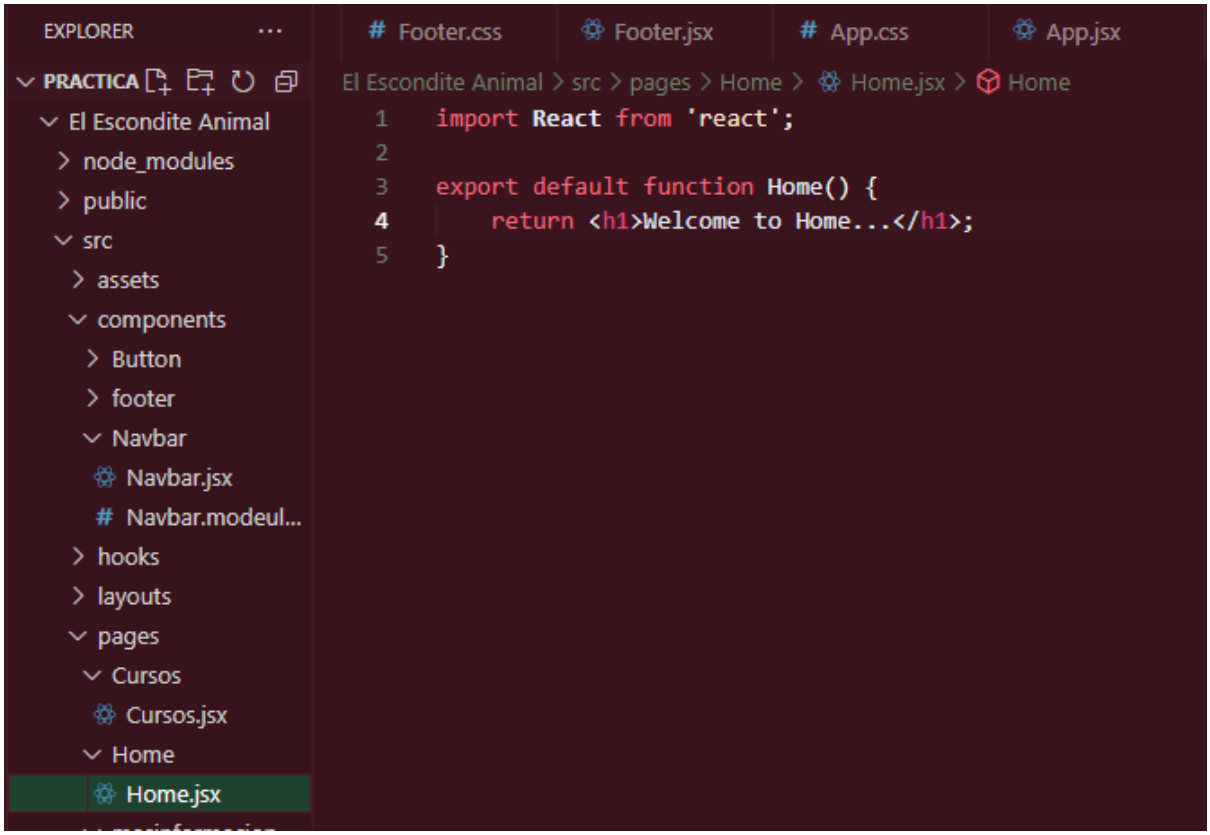


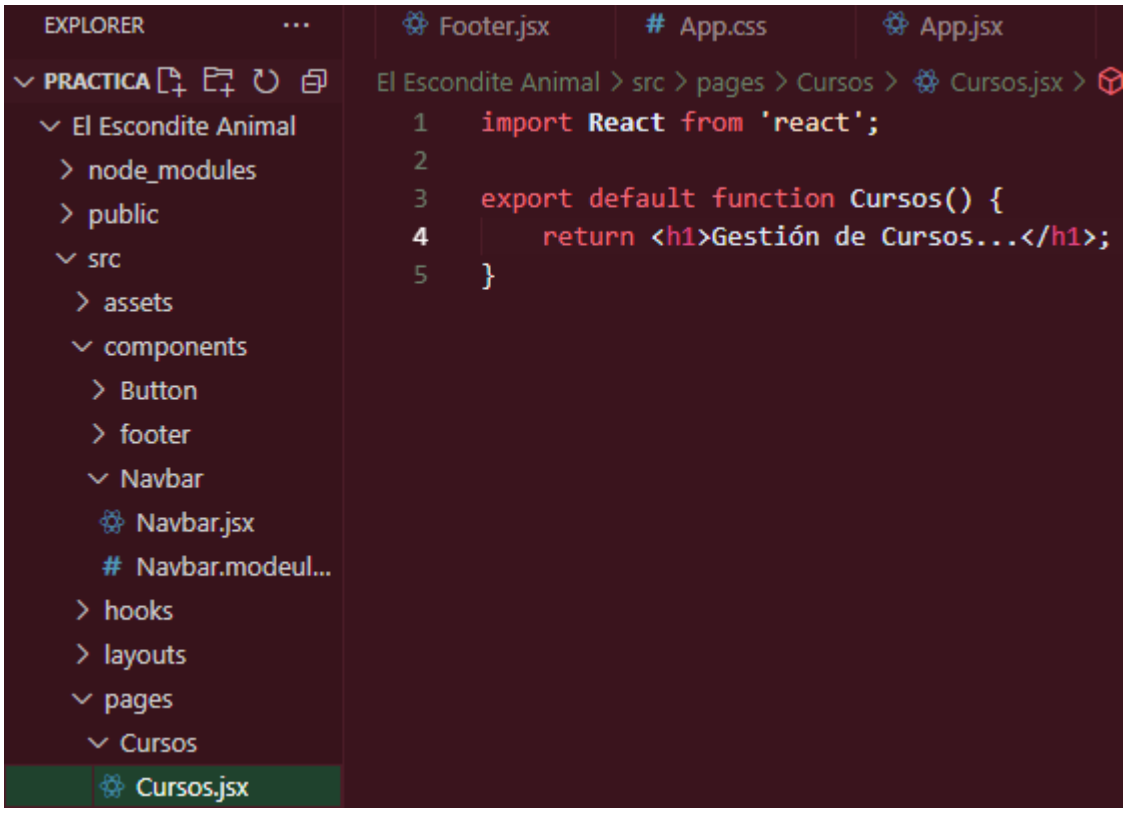
Ahora escribimos el codigo:

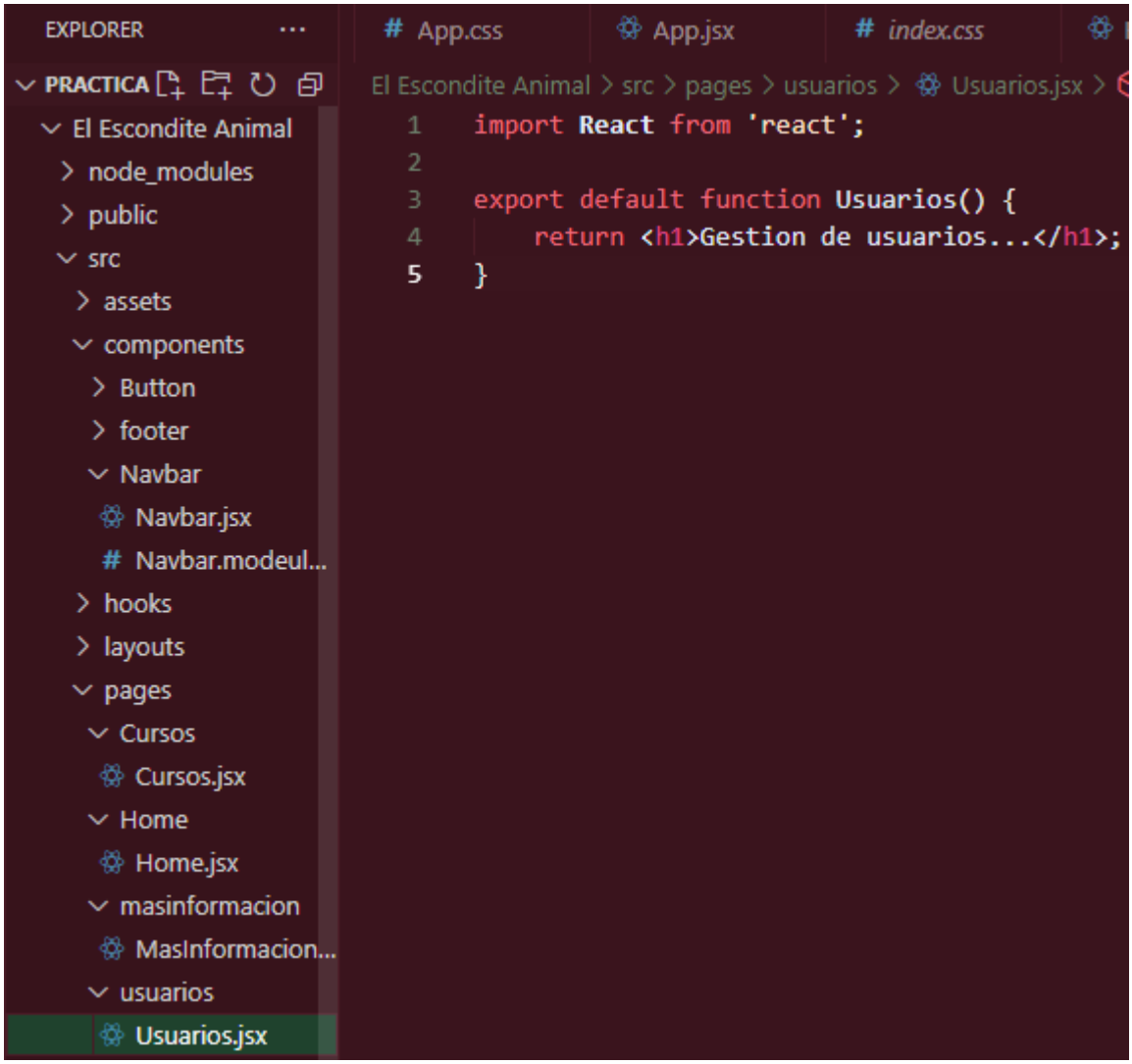

EXPLORER
Navbar.jsx
Navbar.modeule.css
Button.jsx
Button.module.css
useAuth.js
El Escondite Animal > src > components > Navbar > Navbar.jsx > Navbar
PRACTICA
El Escondite Animal
node_modules
public
src
assets
components
Button
footer
Navbar
Navbar.jsx
Navbar.modeul...
hooks
layouts
pages
Cursos
Cursos.jsx
Home
Home.jsx
masinformacion
MasInformacion...
usuarios
Usuarios.jsx
routes
appRoutes.jsx
services
utils
App.css
App.js
App.jsx
index.css
index.js
main.jsx
.gitignore
app.js
eslint.config.js
index.html
package-lock.json
package.json
README.md
vite.config.js
import React from 'react';
import AppBar from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import Typography from'@mui/material/Typography';
import Button from '@mui/material/Button';
import { Link } from 'react-router-dom';
import { makeStyles } from '@mui/styles';
const useStyles = makeStyles((theme) => ({
title: {
flexGrow: 1,
},
link: {
color: 'white',
textDecoration: 'none',
margin: theme.spacing(2),
},
toolbar: {
display:'flex',
justifyContent: 'space-between',
},
}));
export default function Navbar() {
const classes = useStyles();
return (
<AppBar position="static">
<Toolbar className= {classes.toolbar}>
<Typography variant="h6" className={classes.title}>
SERVICIO NACIONAL DE APRENDIZAJE - SENA
</Typography>

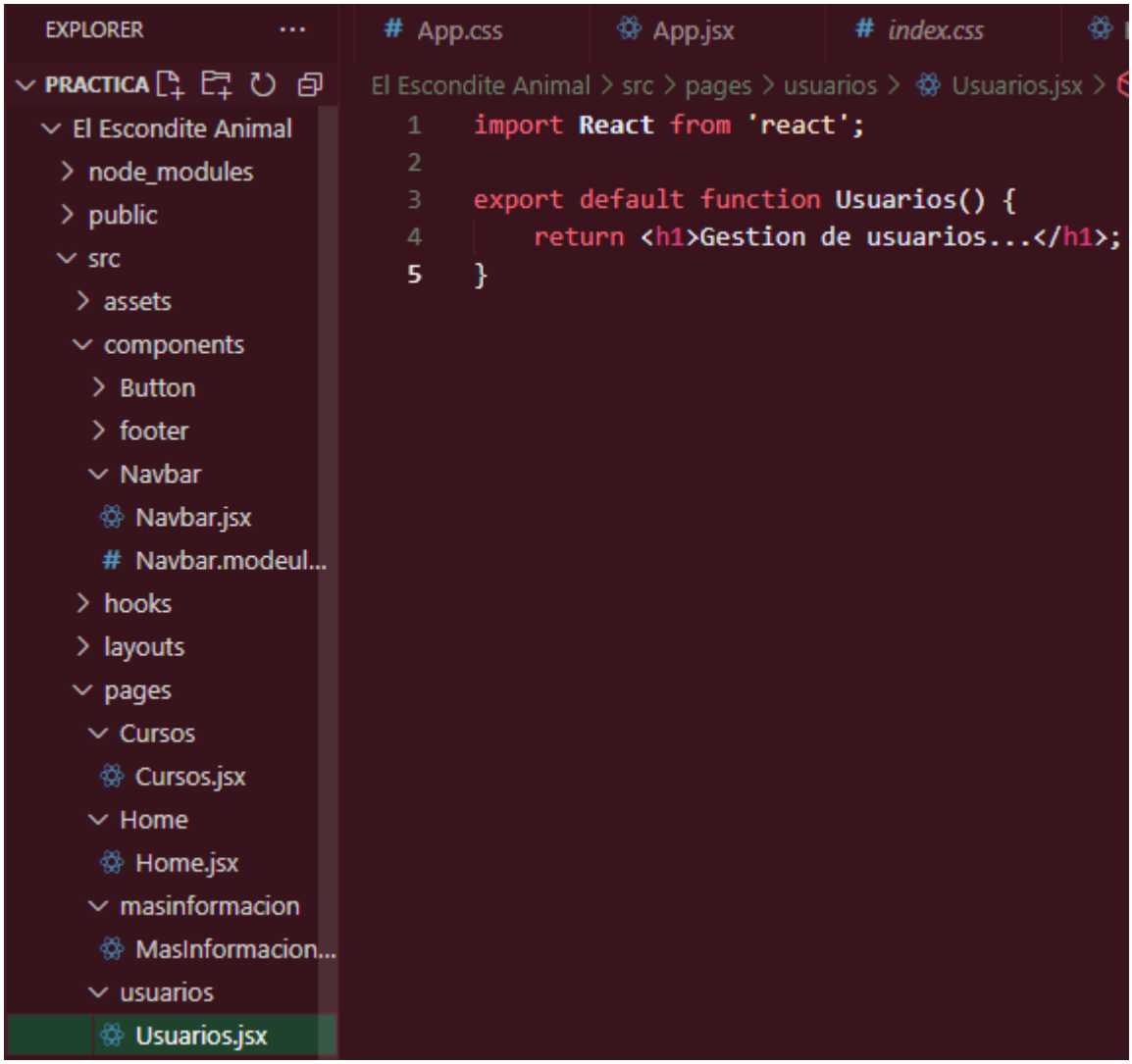
<Link to="/home" className={ classes.link } >
<Button color="inherit">Home</Button>
</Link>
<Link to="/cursos" className={ classes.link } >
<Button color="inherit">Cursos</Button>
</Link>
<Link to="/usuarios" className={ classes.link } >
<Button color="inherit">Usuarios</Button>
</Link>
<Link to="/masinformacion" className={ classes.link } >
<Button color="inherit">Más información</Button>
</Link>

</Toolbar>
</AppBar>
);
}


EXPLORER
Footer.css
Footer.jsx
App.css
App.jsx
PRACTICA
El Escondite Animal > src > pages > Home > Home.jsx > Home
El Escondite Animal
node_modules
public
src
assets
components
Button
footer
Navbar
Navbar.jsx
Navbar.modeul...
hooks
layouts
pages
Cursos
Cursos.jsx
Home
Home.jsx
1 import React from 'react';
2
3 export default function Home() {
4 return <h1>Welcome to Home...</h1>;
5 }

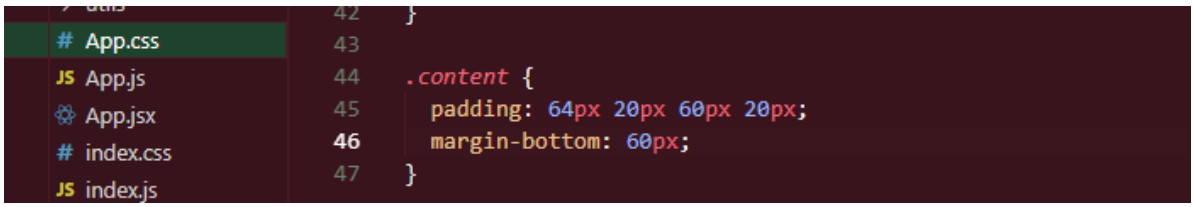

EXPLORER
Footer.jsx
App.css
App.jsx
PRACTICA
El Escondite Animal > src > pages > Cursos > Cursos.jsx
El Escondite Animal
node_modules
public
src
assets
components
Button
footer
Navbar
Navbar.jsx
Navbar.modeul...
hooks
layouts
pages
Cursos
Cursos.jsx
1 import React from 'react';
2
3 export default function Cursos() {
4 return <h1>Gestión de Cursos...</h1>;
5 }

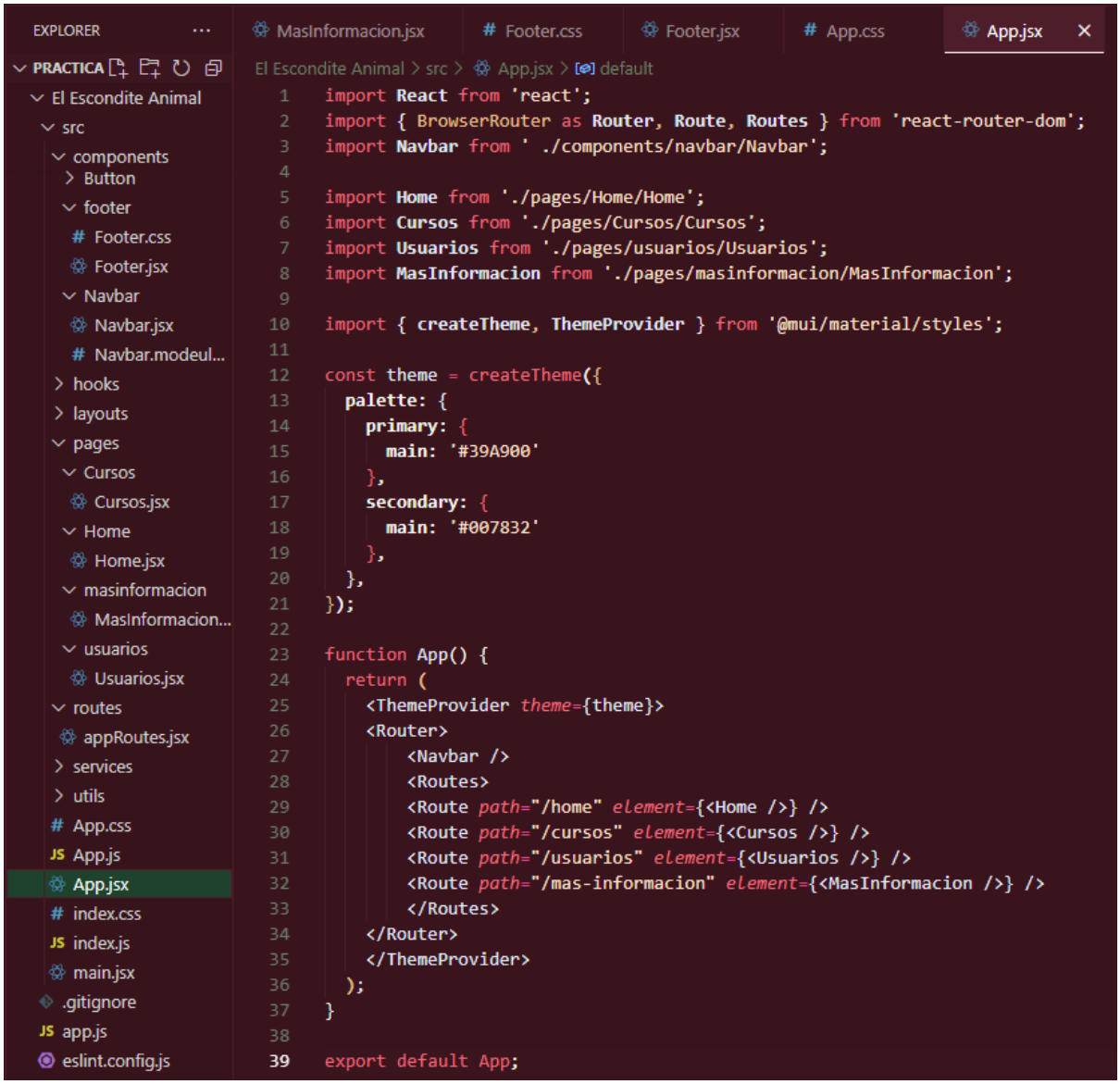

EXPLORER
PRACTICA
El Escondite Animal
node_modules
public
src
assets
components
Button
footer
Navbar
Navbar.jsx
Navbar.modeul...
hooks
layouts
pages
Cursos
Cursos.jsx
Home
Home.jsx
masinformacion
MasInformacion...
usuarios
Usuarios.jsx
App.css
App.jsx
index.css
El Escondite Animal > src > pages > usuarios > Usuarios.jsx
1 import React from 'react';
2
3 export default function Usuarios() {
4 return <h1>Gestion de usuarios...</h1>;
5 }


EXPLORER
PRACTICA
El Escondite Animal
node_modules
public
src
assets
components
Button
footer
Navbar
Navbar.jsx
Navbar.modeul...
hooks
layouts
pages
Cursos
Cursos.jsx
Home
Home.jsx
masinformacion
MasInformacion...
usuarios
Usuarios.jsx
App.css
App.jsx
index.css
El Escondite Animal > src > pages > usuarios > Usuarios.jsx
1 import React from 'react';
2
3 export default function Usuarios() {
4 return <h1>Gestion de usuarios...</h1>;
5 }

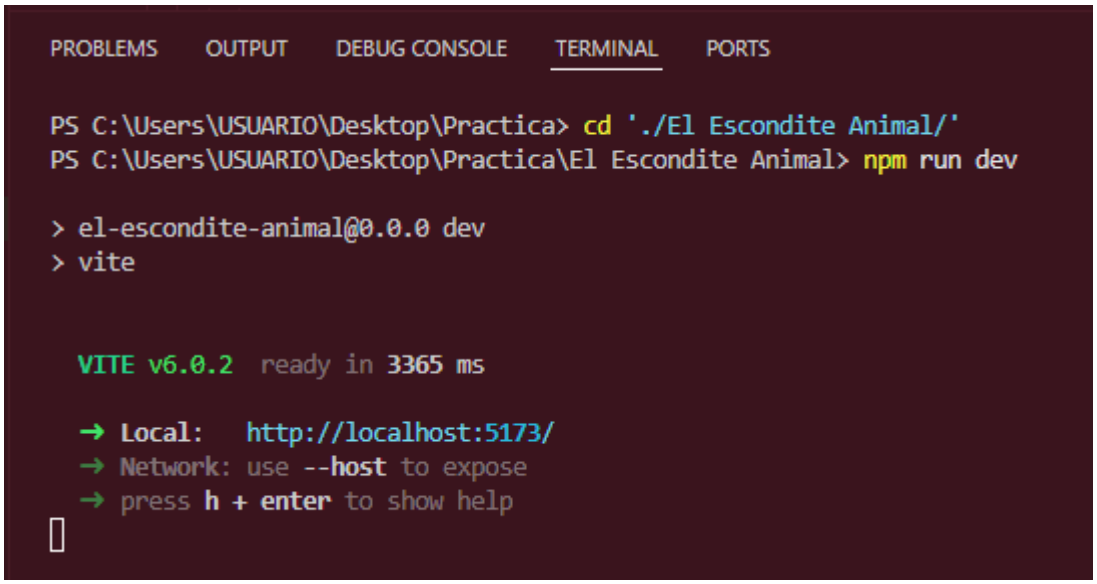
EXPLORER
MasInformacion.jsx
Footer.css
Footer.jsx
App.c
PRACTICA
El Escondite Animal > src > components > footer > Footer.css > .footer
El Escondite Animal
node_modules
public
src
assets
components
Button
footer
Footer.css
.footer {
background-color: antiquewhite;
color: black;
text-align: center;
padding: 10px 0;
position: fixed;
bottom: 0;
width: 100%;
box-shadow: 0px -2px 10px rgba(0, 0, 0, 0.1);
}

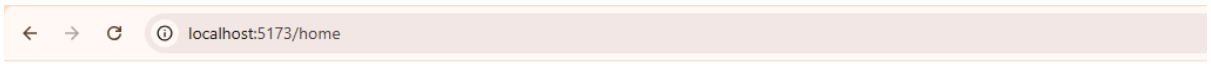
EXPLORER
MasInformacion.jsx
Footer.css
Footer.jsx
App.css
PRACTICA
El Escondite Animal > src > components > footer > Footer.jsx > default
El Escondite Animal
node_modules
public
src
assets
components
Button
footer
Footer.css
Footer.jsx
Navbar
Navbar.jsx
Navbar.modeul...
import React from 'react';
import '../Footer.css';
const Footer = () => {
const currentYear = new Date().getFullYear();
return (
<footer className="footer">
@ {currentYear} SENA. All rights reserved.
</footer>
);
};
export default Footer;


App.css
App.js
App.jsx
index.css
index.js
}
.content {
padding: 64px 20px 60px 20px;
margin-bottom: 60px;
}



Ejecutamos el proyecto en la terminal:

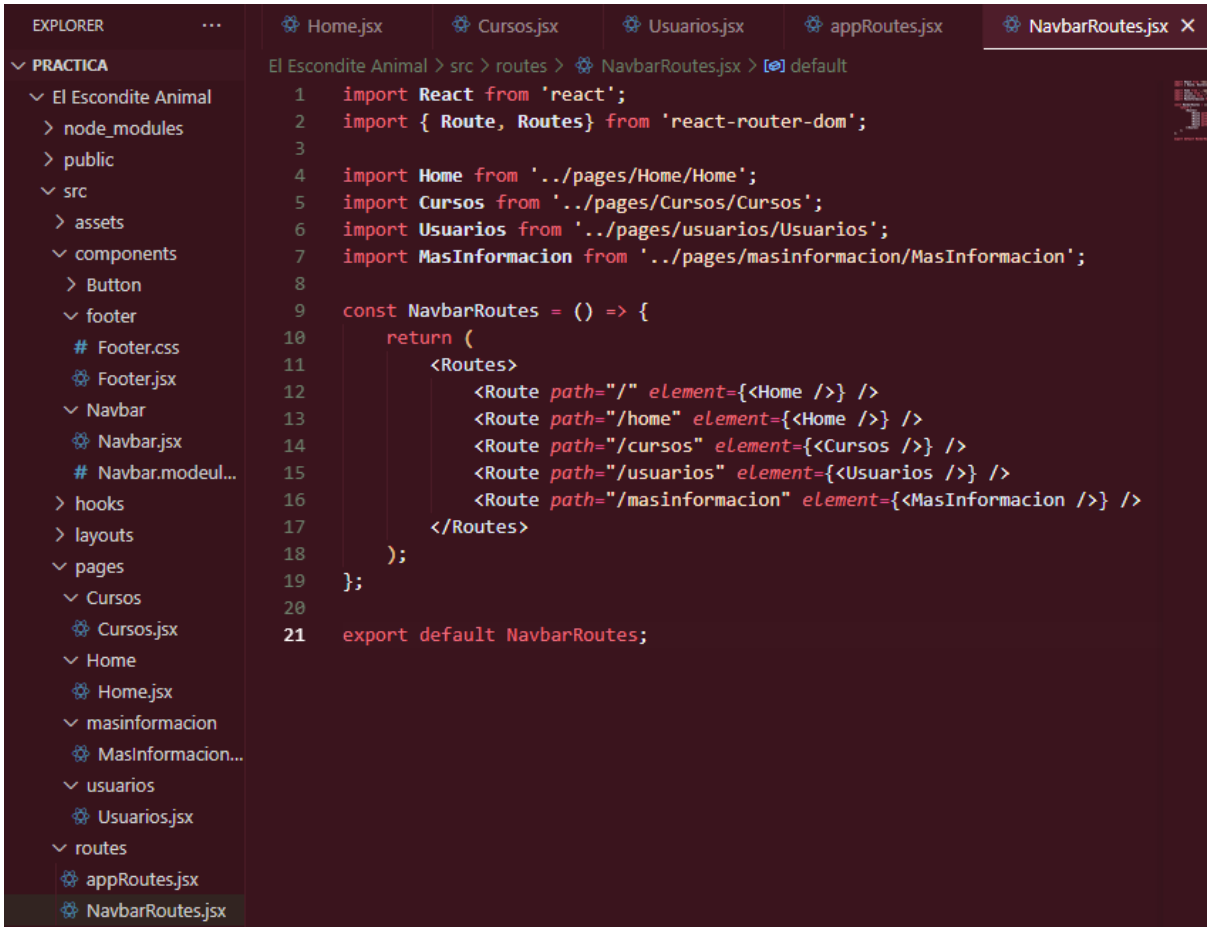


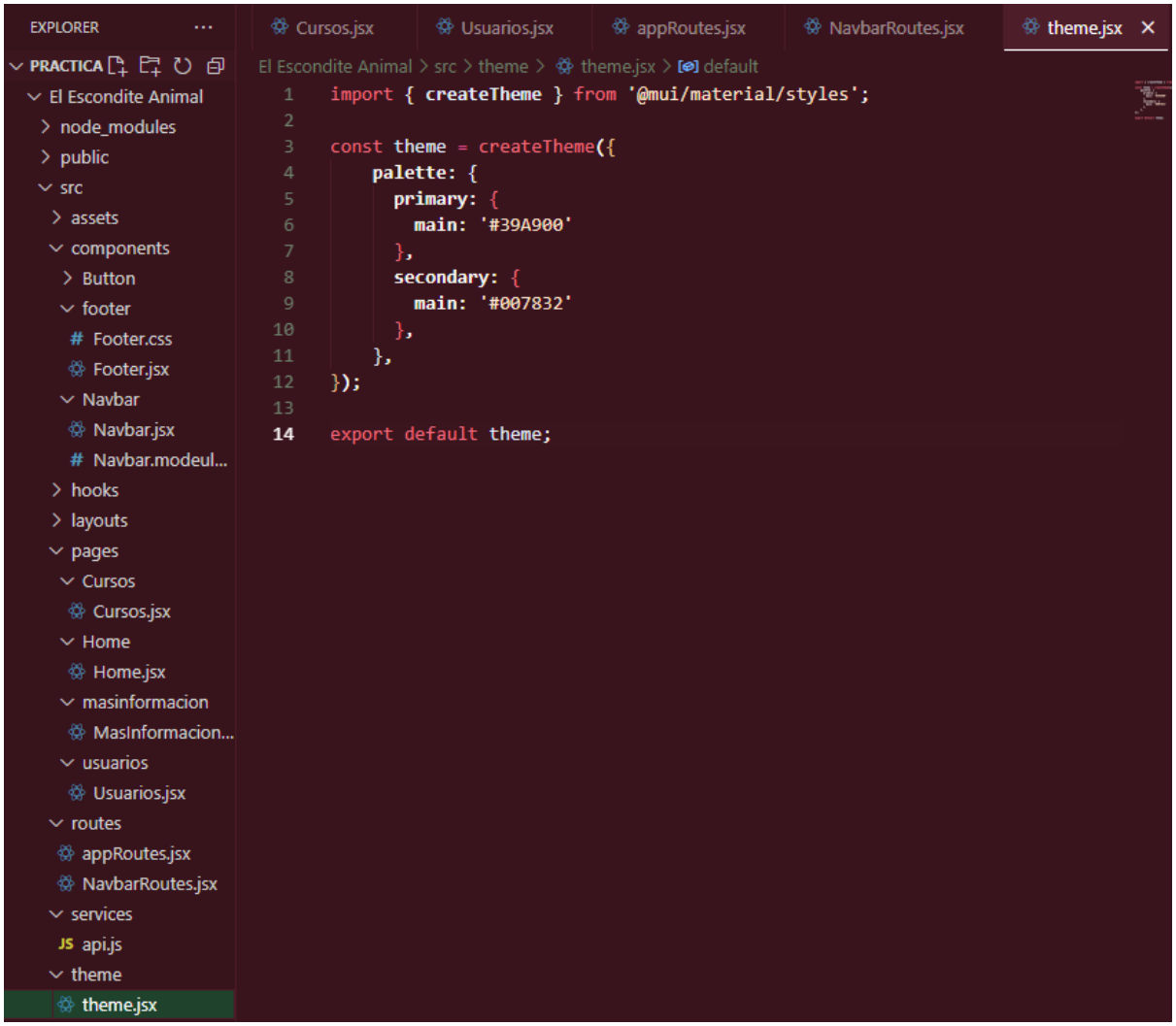


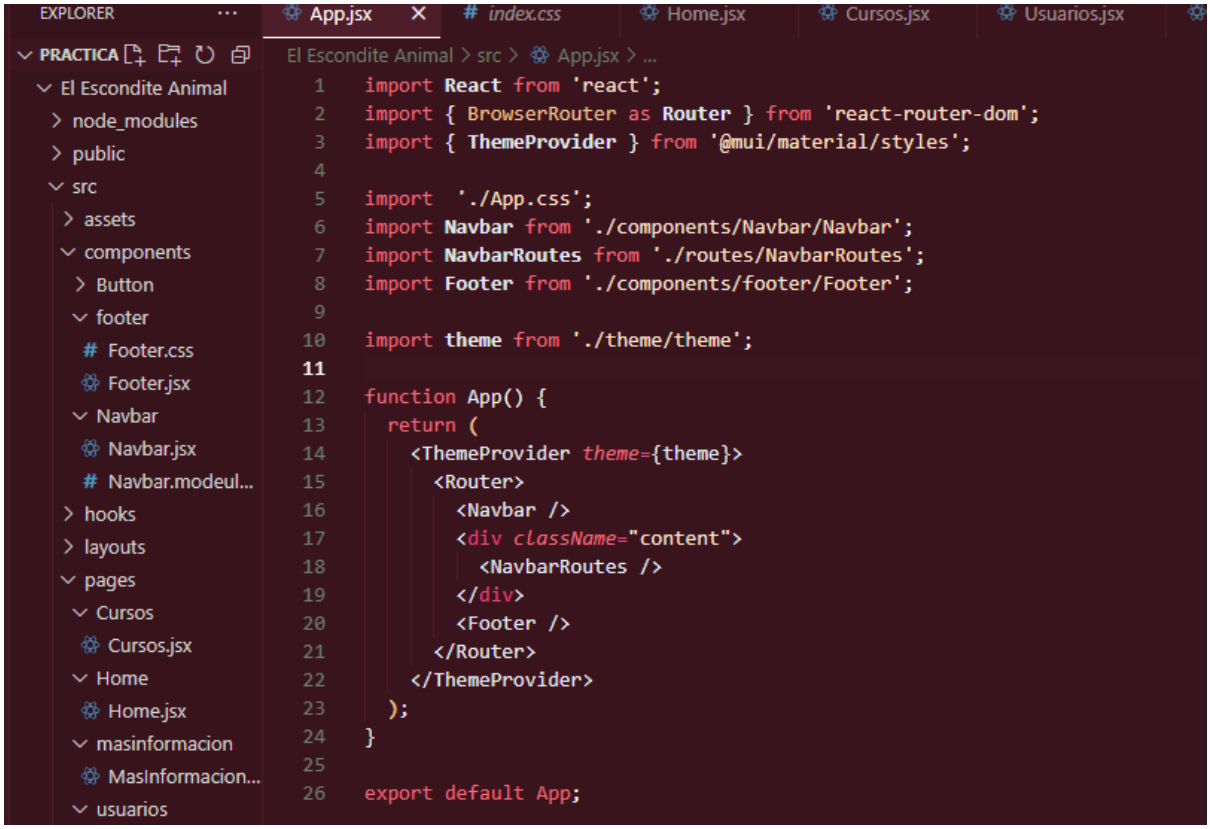
Welcome to Home...

(Versión no responsiva)

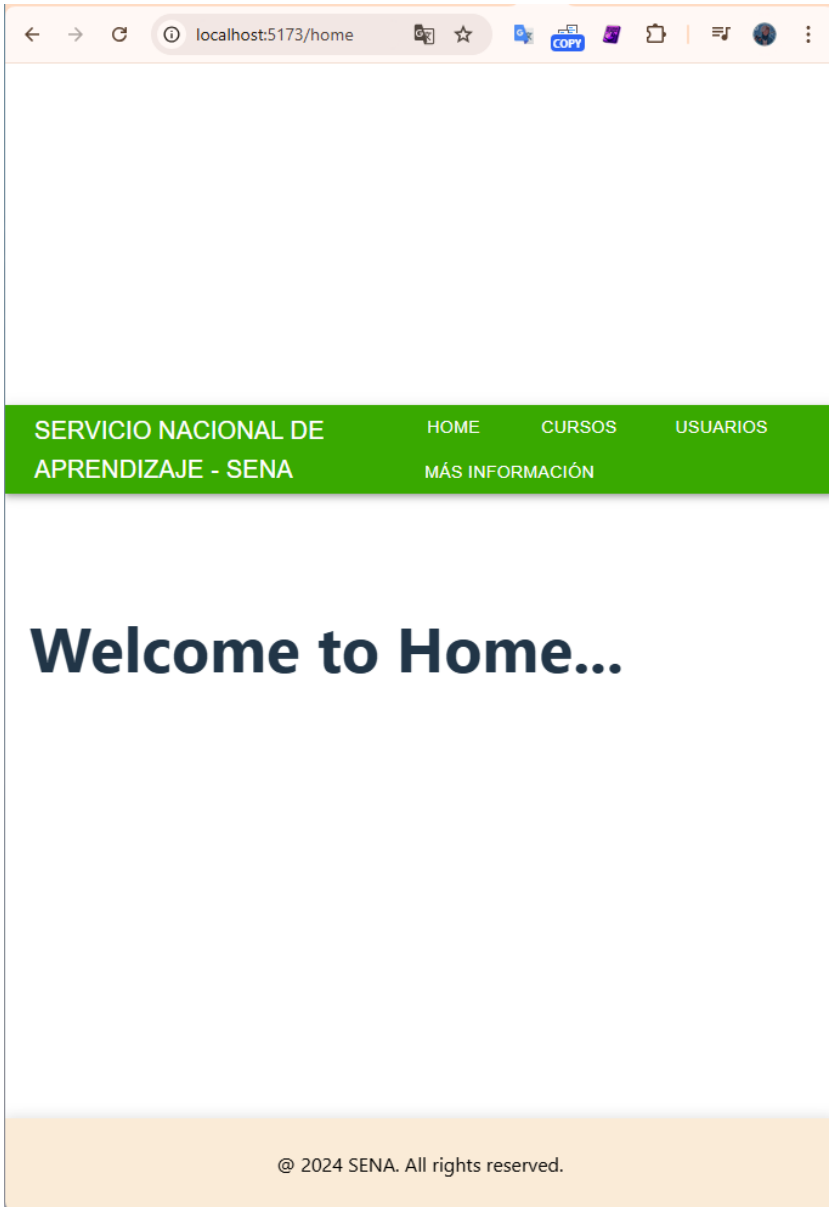
Implementamos el codigo:


EXPLORER
PRACTICA
El Escondite Animal
node_modules
public
src
assets
components
Button
footer
Footer.css
Footer.jsx
Navbar
Navbar.jsx
Navbar.modeul...
hooks
layouts
pages
Cursos
Cursos.jsx
Home
Home.jsx
masinformacion
MasInformacion...
usuarios
Usuarios.jsx
routes
appRoutes.jsx
NavbarRoutes.jsx
Home.jsx
Cursos.jsx
Usuarios.jsx
appRoutes.jsx
NavbarRoutes.jsx
El Escondite Animal > src > routes > NavbarRoutes.jsx > default
1 import React from 'react';
2 import { Route, Routes} from 'react-router-dom';
3
4 import Home from '../pages/Home/Home';
5 import Cursos from '../pages/Cursos/Cursos';
6 import Usuarios from '../pages/usuarios/Usuarios';
7 import MasInformacion from '../pages/masinformacion/MasInformacion';
8
9 const NavbarRoutes = () => {
10 return (
11 <Routes>
12 <Route path="/" element={<Home />} />
13 <Route path="/home" element={<Home />} />
14 <Route path="/cursos" element={<Cursos />} />
15 <Route path="/usuarios" element={<Usuarios />} />
16 <Route path="/masinformacion" element={<MasInformacion />} />
17 </Routes>
18);
19 };
20
21 export default NavbarRoutes;


EXPLORER
Cursos.jsx
Usuarios.jsx
appRoutes.jsx
NavbarRoutes.jsx
theme.jsx
El Escondite Animal > src > theme > theme.jsx > default
PRACTICA
El Escondite Animal
node_modules
public
src
assets
components
Button
footer
Footer.css
Footer.jsx
Navbar
Navbar.jsx
Navbar.modeul...
hooks
layouts
pages
Cursos
Cursos.jsx
Home
Home.jsx
masinformacion
MasInformacion...
usuarios
Usuarios.jsx
routes
appRoutes.jsx
NavbarRoutes.jsx
services
api.js
theme
theme.jsx
1 import { createTheme } from '@mui/material/styles';
2
3 const theme = createTheme({
4 palette: {
5 primary: {
6 main: '#39A900'
7 },
8 secondary: {
9 main: '#007832'
10 },
11 },
12 });
13
14 export default theme;

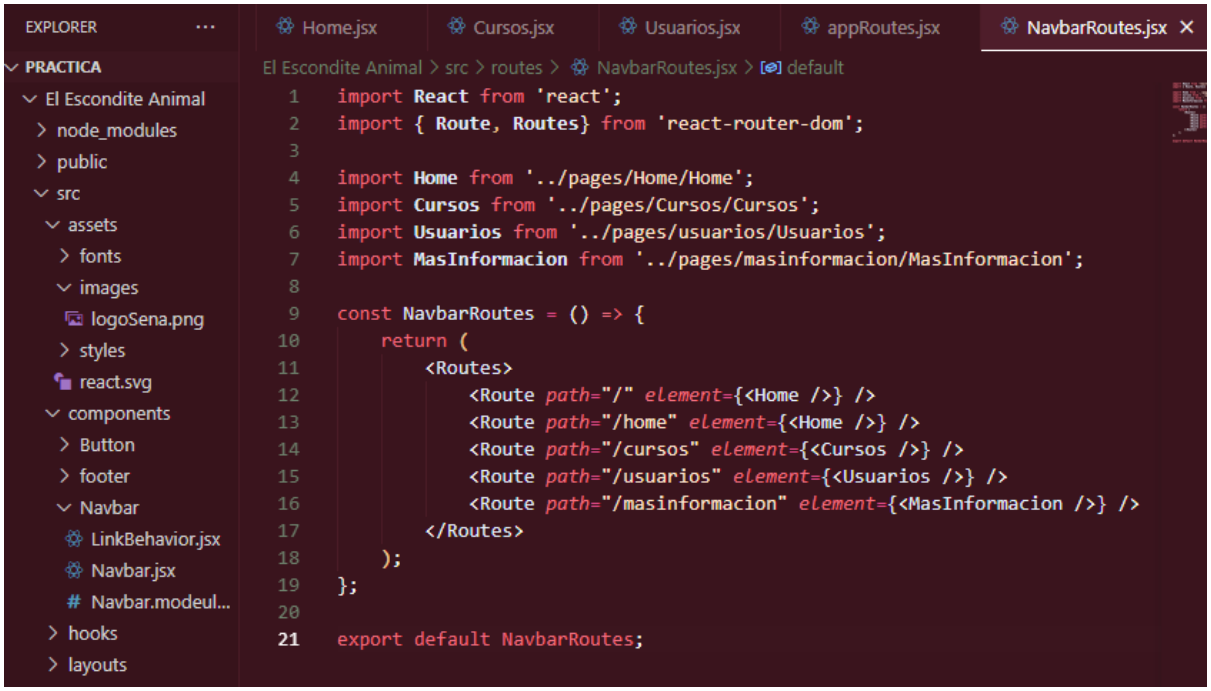


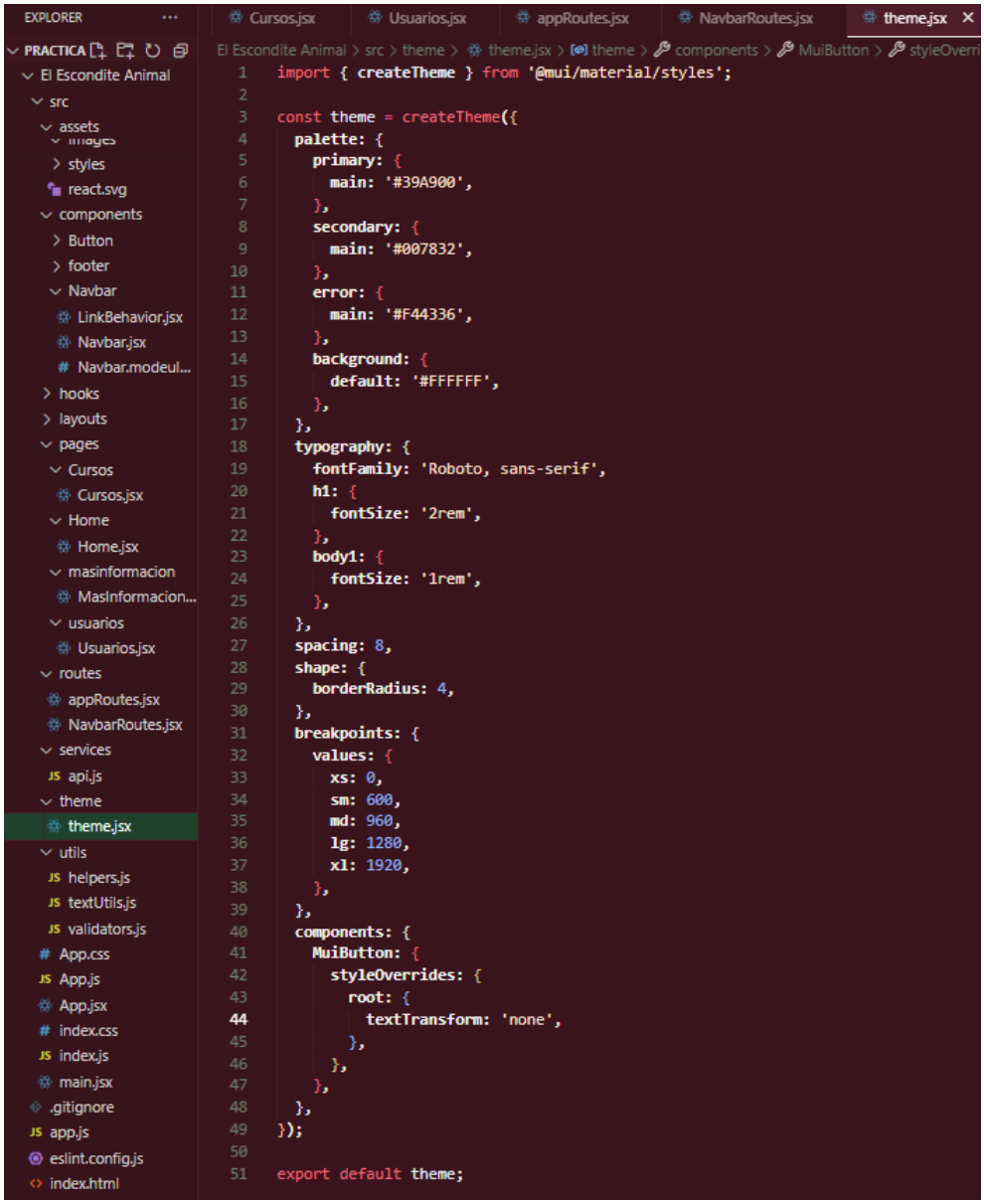
Ejecutamos el código:

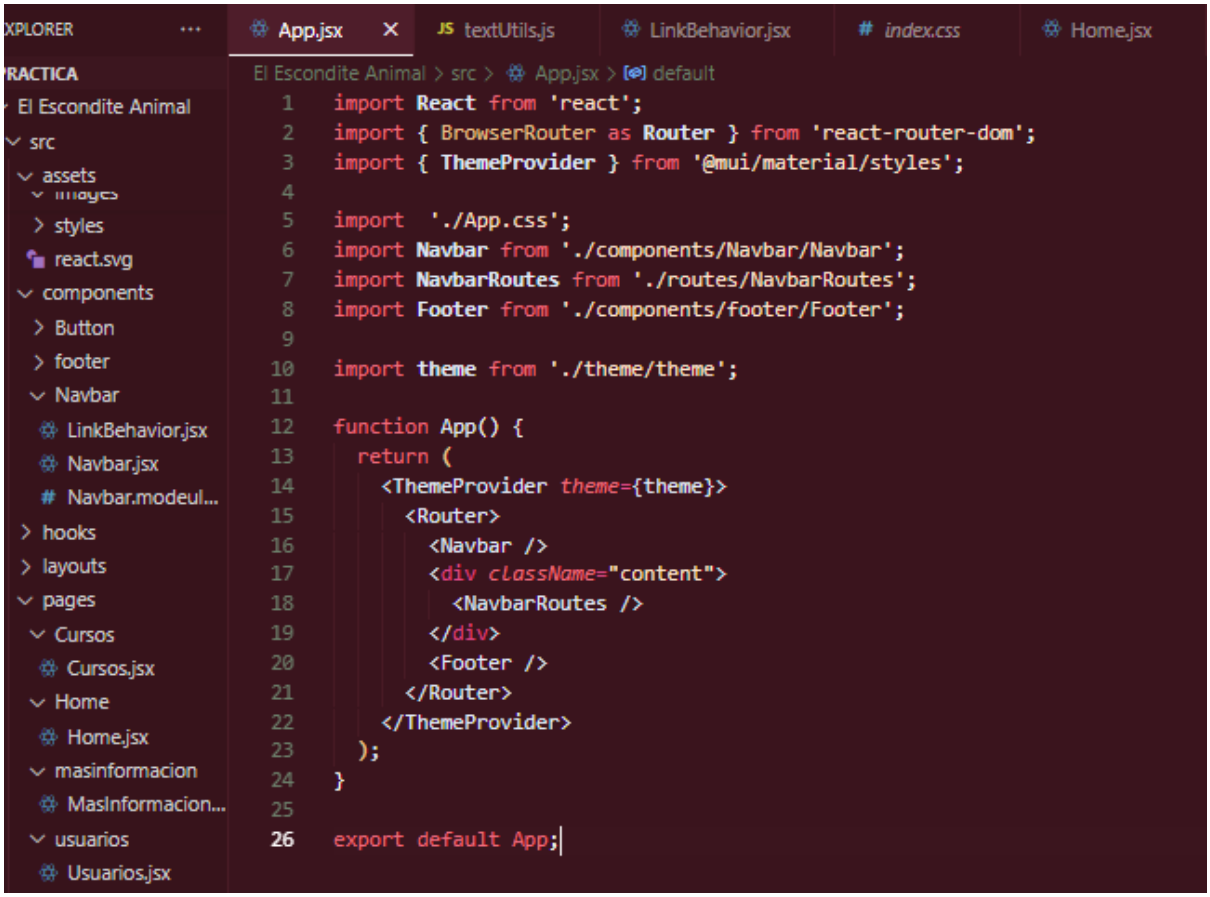


Podemos ver en las rutas como se dirige a la dirección de cada sección.

Hacemos las modificaciones en el codigo:


EXPLORER
PRACTICA
El Escondite Animal
node_modules
public
src
assets
fonts
images
logoSena.png
styles
react.svg
components
Button
footer
Navbar
LinkBehavior.jsx
Navbar.jsx
Navbar.modeul...
hooks
layouts
Home.jsx
Cursos.jsx
Usuarios.jsx
appRoutes.jsx
NavbarRoutes.jsx
El Escondite Animal > src > routes > NavbarRoutes.jsx > default
1 import React from 'react';
2 import { Route, Routes} from 'react-router-dom';
3
4 import Home from '../pages/Home/Home';
5 import Cursos from '../pages/Cursos/Cursos';
6 import Usuarios from '../pages/usuarios/Usuarios';
7 import MasInformacion from '../pages/masinformacion/MasInformacion';
8
9 const NavbarRoutes = () => {
10 return (
11 <Routes>
12 <Route path="/" element={<Home />} />
13 <Route path="/home" element={<Home />} />
14 <Route path="/cursos" element={<Cursos />} />
15 <Route path="/usuarios" element={<Usuarios />} />
16 <Route path="/masinformacion" element={<MasInformacion />} />
17 </Routes>
18);
19 };
20
21 export default NavbarRoutes;

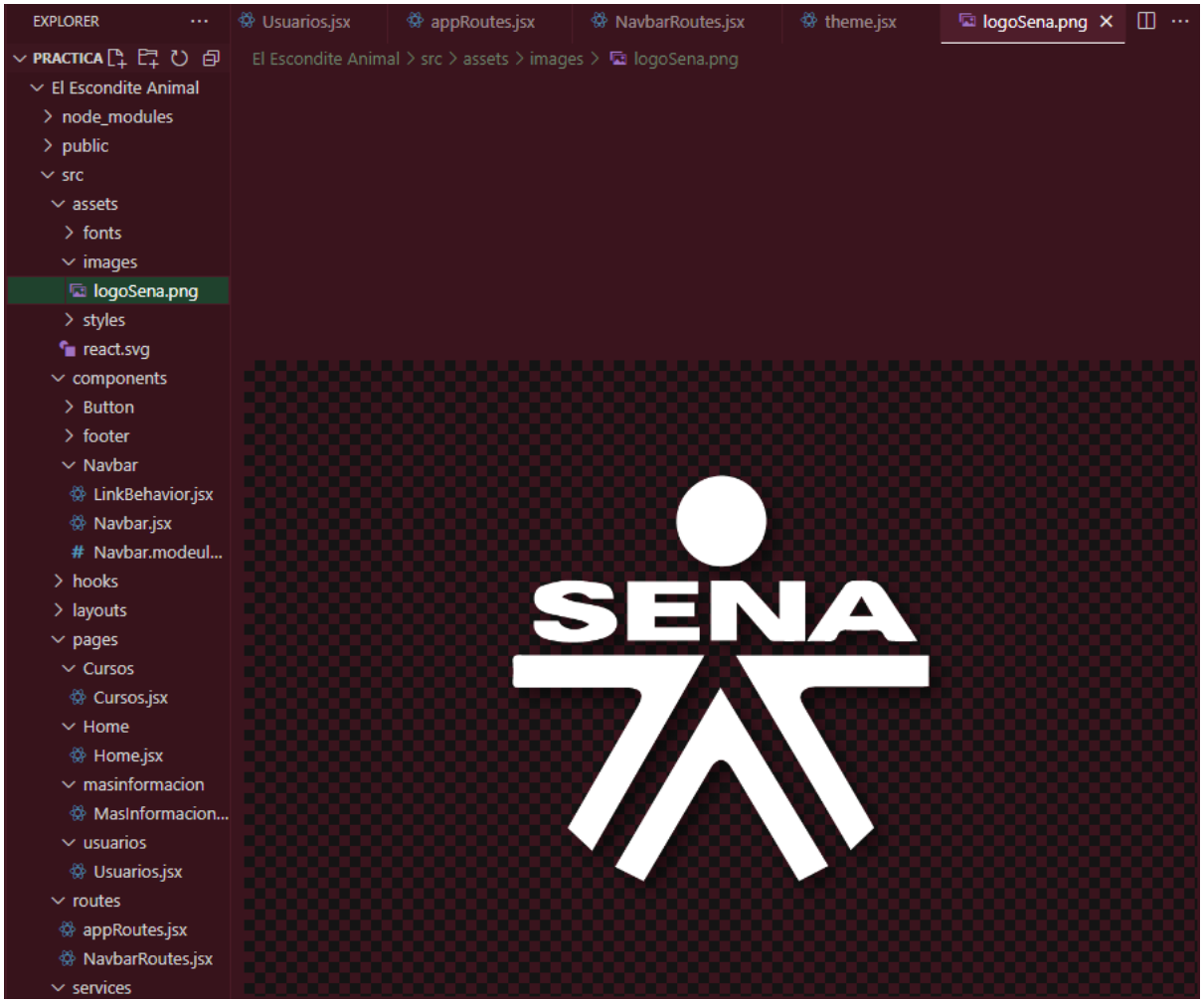

EXPLORER
PRACTICA
El Escondite Animal
src
assets
styles
react.svg
components
Button
footer
Navbar
LinkBehavior.jsx
Navbar.jsx
Navbar.modeul...
hooks
layouts
pages
Cursos
Cursos.jsx
Home
Home.jsx
masinformacion
MasInformacion...
usuarios
Usuarios.jsx
routes
appRoutes.jsx
NavbarRoutes.jsx
services
api.js
theme
theme.jsx
utils
helpers.js
textUtils.js
validators.js
App.css
App.js
App.jsx
index.css
index.js
main.jsx
.gitignore
app.js
eslint.config.js
index.html
Cursos.jsx
Usuarios.jsx
appRoutes.jsx
NavbarRoutes.jsx
theme.jsx
El Escondite Animal > src > theme > theme.jsx > theme > components > MuiButton > styleOverri
1 import { createTheme } from '@mui/material/styles';
2
3 const theme = createTheme({
4 palette: {
5 primary: {
6 main: '#39A900',
7 },
8 secondary: {
9 main: '#007832',
10 },
11 error: {
12 main: '#F44336',
13 },
14 background: {
15 default: '#FFFFFF',
16 },
17 },
18 typography: {
19 fontFamily: 'Roboto, sans-serif',
20 h1: {
21 fontSize: '2rem',
22 },
23 body1: {
24 fontSize: '1rem',
25 },
26 },
27 spacing: 8,
28 shape: {
29 borderRadius: 4,
30 },
31 breakpoints: {
32 values: {
33 xs: 0,
34 sm: 600,
35 md: 960,
36 lg: 1280,
37 xl: 1920,
38 },
39 },
40 components: {
41 MuiButton: {
42 styleOverrides: {
43 root: {
44 textTransform: 'none',
45 },
46 },
47 },
48 },
49 });
50
51 export default theme;

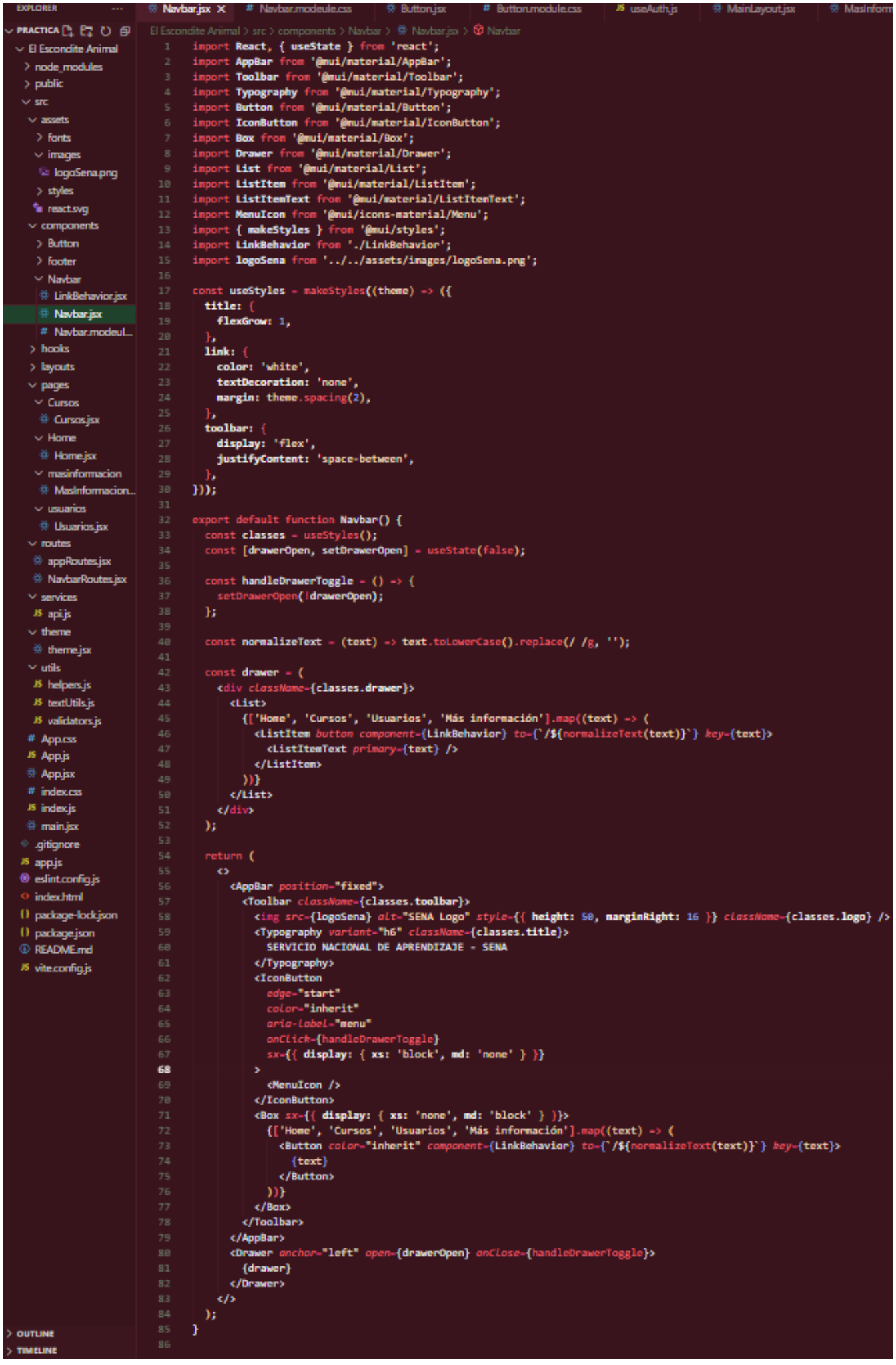


Creamos el archivo textUtils.js y escribimos el código:

Ahora creamos el de LinkBehavior.jsx:

Ahora agregamos la imagen del logo del SENA:


EXPLORER
Usuarios.jsx
appRoutes.jsx
NavbarRoutes.jsx
theme.jsx
logoSena.png
PRACTICA
El Escondite Animal > src > assets > images > logoSena.png
El Escondite Animal
node_modules
public
src
assets
fonts
images
logoSena.png
styles
react.svg
components
Button
footer
Navbar
LinkBehavior.jsx
Navbar.jsx
Navbar.modeul...
hooks
layouts
pages
Cursos
Cursos.jsx
Home
Home.jsx
masinformacion
MasInformacion...
usuarios
Usuarios.jsx
routes
appRoutes.jsx
NavbarRoutes.jsx
services
SENA


EXPLORER
Navbar.jsx
Navbar.modeule.css
Button.jsx
Button.module.css
useAuth.js
MainLayout.jsx
PRACTICA
El Escondite Animal > src > components > Navbar > Navbar.jsx > Navbar
node_modules
public
src
assets
fonts
images
logoSena.png
styles
react.svg
components
Button
footer
Navbar
LinkBehavior.jsx
Navbar.jsx
Navbar.modeul...
hooks
layouts
pages
Cursos
Cursos.jsx
Home
Home.jsx
masinformacion
MasInformacion...
usuarios
Usuarios.jsx
routes
appRoutes.jsx
NavbarRoutes.jsx
services
api.js
theme
theme.jsx
utils
helpers.js
textUtils.js
validators.js
App.css
App.js
App.jsx
index.css
index.js
main.jsx
.gitignore
app.js
eslint.config.js
index.html
package-lock.json
package.json
README.md
vite.config.js
OUTLINE
TIMELINE
import React, { useState } from 'react';
import AppBar from '@mui/material/AppBar';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import Button from '@mui/material/Button';
import IconButton from '@mui/material/IconButton';
import Box from '@mui/material/Box';
import Drawer from '@mui/material/Drawer';
import List from '@mui/material/List';
import ListItem from '@mui/material/ListItem';
import ListItemText from '@mui/material/ListItemText';
import MenuIcon from '@mui/icons-material/Menu';
import { makeStyles } from '@mui/styles';
import LinkBehavior from './LinkBehavior';
import logoSena from '../../assets/images/logoSena.png';
const useStyles = makeStyles((theme) => ({
title: {
flexGrow: 1,
},
link: {
color: 'white',
textDecoration: 'none',
margin: theme.spacing(2),
},
toolbar: {
display: 'flex',
justifyContent: 'space-between',
},
}));
export default function Navbar() {
const classes = useStyles();
const [drawerOpen, setDrawerOpen] = useState(false);
const handleDrawerToggle = () => {
setDrawerOpen(!drawerOpen);
};
const normalizeText = (text) => text.toLowerCase().replace(/ /g, '');
const drawer = (

<List>
{['Home', 'Cursos', 'Usuarios', 'Más información'].map((text) => (
<ListItem button component={LinkBehavior} to={`/${normalizeText(text)}`} key={text}>
<ListItemText primary={text} />
</ListItem>
))}
</List>

);
return (
<>
<AppBar position="fixed">
<Toolbar className={classes.toolbar}>
<img src={logoSena} alt="SENA Logo" style={{ height: 50, marginRight: 16 }} className={classes.logo} />
<Typography variant="h6" className={classes.title}>
SERVICIO NACIONAL DE APRENDIZAJE - SENA
</Typography>
<IconButton
edge="start"
color="inherit"
aria-label="menu"
onClick={handleDrawerToggle}
sx={{ display: { xs: 'block', md: 'none' } }}
>
<MenuIcon />
</IconButton>
<Box sx={{ display: { xs: 'none', md: 'block' } }}>
{['Home', 'Cursos', 'Usuarios', 'Más información'].map((text) => (
<Button color="inherit" component={LinkBehavior} to={`/${normalizeText(text)}`} key={text}>
{text}
</Button>
))}
</Box>
</Toolbar>
</AppBar>
<Drawer anchor="left" open={drawerOpen} onClose={handleDrawerToggle}>
{drawer}
</Drawer>
</>
);
}

Se realizaron cambios en las importaciones faltantes de componentes de Material-UI (IconButton, Box, Drawer, entre otros) porque causaban errores al intentar usarlos sin estar definidos. Se agregó la función normalizeText ya que era importante para generar rutas válidas dinámicamente desde los textos del menú. Finalmente, se añadieron las importaciones de LinkBehavior y logoSena, ya que eran fundamentales para enlazar las rutas y mostrar correctamente el logotipo en el Navbar.

Resultado final:

Welcome to Home...

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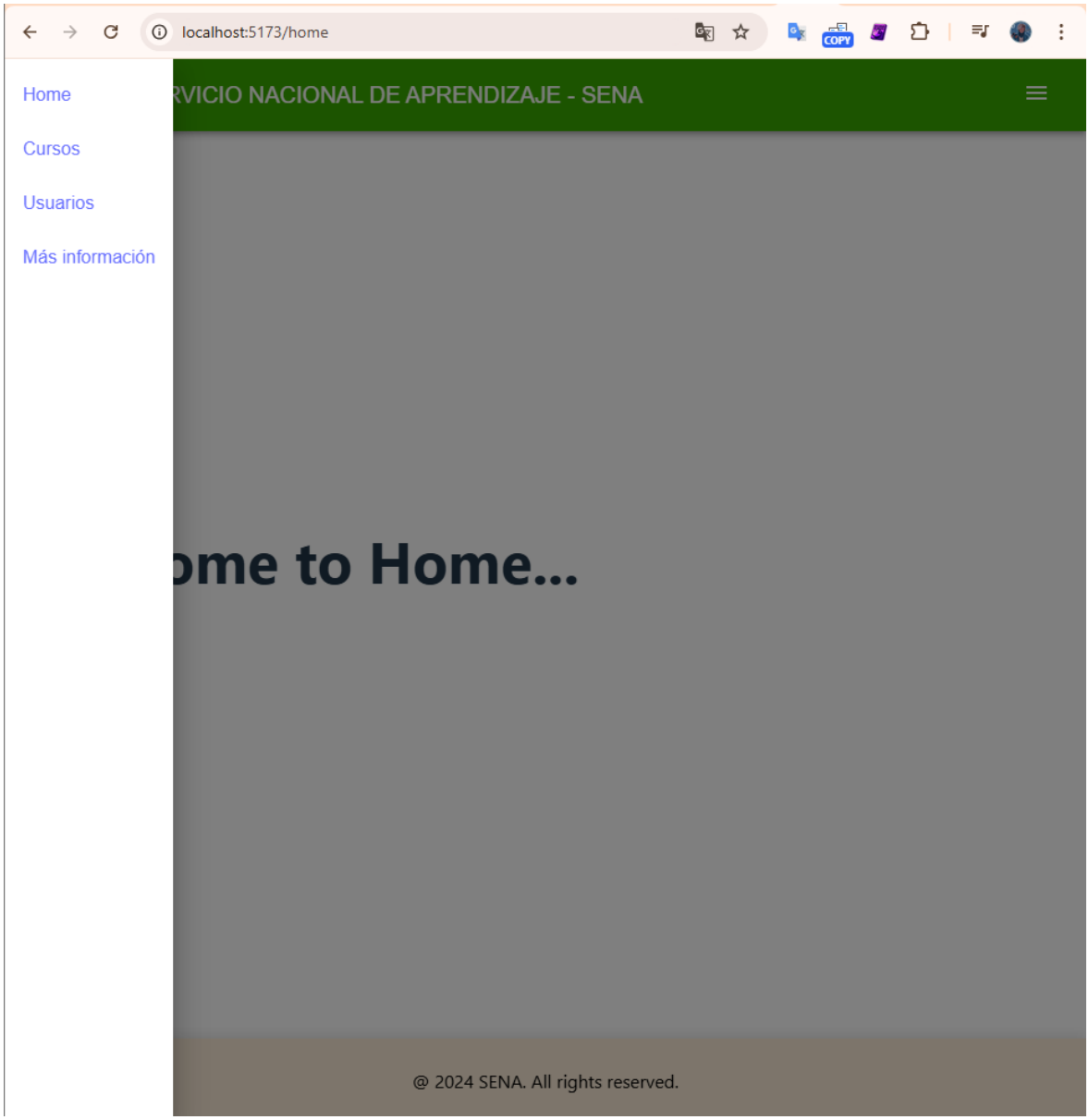
localhost:5173/home
Home
Cursos
Usuarios
Más información
RVICIO NACIONAL DE APRENDIZAJE - SENA
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