

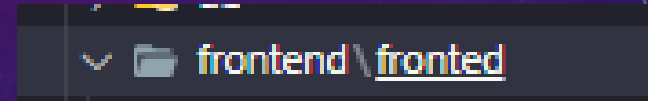
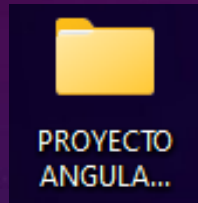
The background features a dark blue gradient with faint, light blue circular patterns. On the left side, there are several concentric circles with degree markings ranging from 140 to 260. Some of these circles have arrows indicating a clockwise direction. The overall aesthetic is technical and modern.

ACTIVIDAD ANGULAR(FRONTEND)

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PASO A PASO

- 1. Creamos la carpeta de proyecto nuevo y la abrimos con Code, allí creamos una carpeta nueva llamada frontend.



- 2. abrimos la terminal y colocamos: `ng new frontend`, luego enter respondemos (Y), finalmente enter para que carguen todos los archivos.

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend>ng new frontend
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE frontend/angular.json (3045 bytes)
CREATE frontend/package.json (1071 bytes)
CREATE frontend/README.md (1053 bytes)
CREATE frontend/tsconfig.json (863 bytes)
CREATE frontend/.editorconfig (274 bytes)
CREATE frontend/.gitignore (620 bytes)
CREATE frontend/.browserslistrc (600 bytes)
CREATE frontend/karma.conf.js (1424 bytes)
CREATE frontend/tsconfig.app.json (287 bytes)
CREATE frontend/tsconfig.spec.json (333 bytes)
CREATE frontend/src/favicon.ico (948 bytes)
CREATE frontend/src/index.html (293 bytes)
CREATE frontend/src/main.ts (372 bytes)
CREATE frontend/src/polyfills.ts (2338 bytes)
CREATE frontend/src/styles.css (80 bytes)
CREATE frontend/src/test.ts (745 bytes)
CREATE frontend/src/assets/.gitkeep (0 bytes)
CREATE frontend/src/environments/environment.prod.ts (51 bytes)
CREATE frontend/src/environments/environment.ts (658 bytes)
CREATE frontend/src/app/app-routing.module.ts (245 bytes)
CREATE frontend/src/app/app.module.ts (393 bytes)
CREATE frontend/src/app/app.component.html (23364 bytes)
CREATE frontend/src/app/app.component.spec.ts (1076 bytes)
CREATE frontend/src/app/app.component.ts (211 bytes)
CREATE frontend/src/app/app.component.css (0 bytes)
✓ Packages installed successfully.
"git" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.
```

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend>
```

- 3. Para encender el servidor de angular escribimos `cd frontend` para especificar la carpeta primero y luego `ng serve`. verificamos si el angular funciona correctamente revisando desde el navegador colocamos `localhost:4200` y allí la pagina confirma si se esta ejecutando.

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend>cd frontend
```

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\frontend>ng serve
```

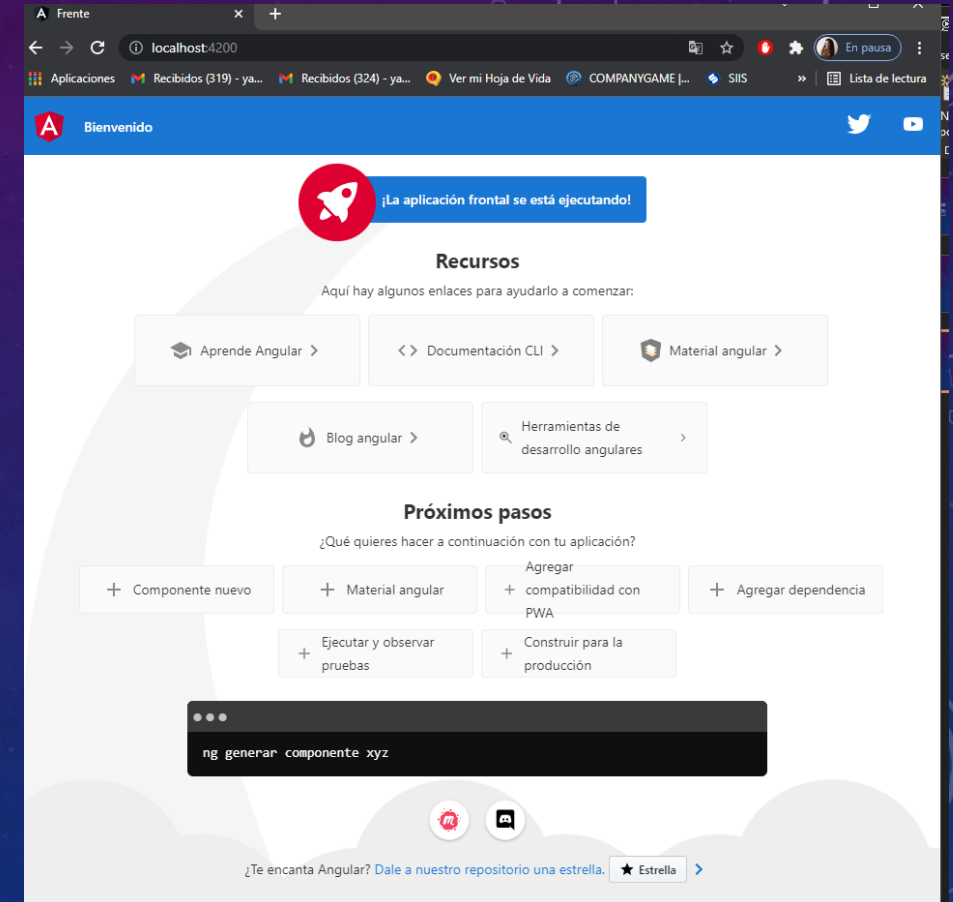
```
✓ Browser application bundle generation complete.
```

Initial Chunk Files	Names	Size
vendor.js	vendor	2.10 MB
polyfills.js	polyfills	339.12 kB
styles.css, styles.js	styles	212.39 kB
main.js	main	53.57 kB
runtime.js	runtime	6.85 kB
Initial Total		2.70 MB

```
Build at: 2021-11-28T20:59:10.326Z - Hash: e0d5407211791944 - Time: 13215ms
```

```
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ *
```

```
✓ Compiled successfully.
```



- 4. Empezamos a crear los componentes, para agregar el componente head, en el terminar escribimos `ng g c home/header` y ya queda registrado, así mismo se hace con footer, register, login; solo cambia el nombre. (si se va a usar Bootstrap copiamos y pegamos el código de descarga que esta en CDN a través de jsDelivr, se pega antes del head y el script se pasa después del app root en la carpeta de src en el `index.html`)

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c home/header
CREATE src/app/home/header/header.component.html (21 bytes)
CREATE src/app/home/header/header.component.spec.ts (626 bytes)
CREATE src/app/home/header/header.component.ts (275 bytes)
CREATE src/app/home/header/header.component.css (0 bytes)
UPDATE src/app/app.module.ts (480 bytes)
```

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c home/footer
CREATE src/app/home/footer/footer.component.html (21 bytes)
CREATE src/app/home/footer/footer.component.spec.ts (626 bytes)
CREATE src/app/home/footer/footer.component.ts (275 bytes)
CREATE src/app/home/footer/footer.component.css (0 bytes)
UPDATE src/app/app.module.ts (567 bytes)
```

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c home/register
CREATE src/app/home/register/register.component.html (23 bytes)
CREATE src/app/home/register/register.component.spec.ts (640 bytes)
CREATE src/app/home/register/register.component.ts (283 bytes)
CREATE src/app/home/register/register.component.css (0 bytes)
UPDATE src/app/app.module.ts (662 bytes)
```

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c home/login
CREATE src/app/home/login/login.component.html (20 bytes)
CREATE src/app/home/login/login.component.spec.ts (619 bytes)
CREATE src/app/home/login/login.component.ts (271 bytes)
CREATE src/app/home/login/login.component.css (0 bytes)
UPDATE src/app/app.module.ts (745 bytes)
```

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>
```

Empezando

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Ejemplos de

Si desea descargar y examinar nuestros [ejemplos](#), puede obtener los ejemplos ya creados:

Descargar ejemplos

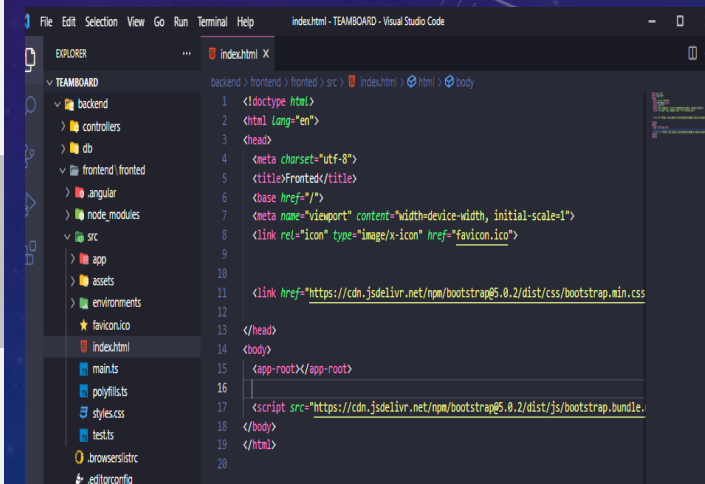
CDN a través de jsDelivr

Omita la descarga con [jsDelivr](#) para entregar la versión en caché de CSS y JS compilados de Bootstrap a su proyecto.

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" defer>
```

Si está utilizando nuestro JavaScript compilado y prefiere incluir Popper por separado, agregue Popper antes de nuestro JS, preferiblemente a través de un CDN.

```
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js" defer>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js" defer>
```



```
index.html - TEAMBOARD - Visual Studio Code
1 <!doctype html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8">
5   <title>Fronted</title>
6   <base href="/">
7   <meta name="viewport" content="width=device-width, initial-scale=1">
8   <link rel="icon" type="image/x-icon" href="favicon.ico">
9
10
11   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet">
12
13 </head>
14 <body>
15   <app-root></app-root>
16
17   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" defer>
18 </body>
19 </html>
20
```


- 5. Luego para agregar el componente de board, colocamos en la terminal ng g c board/save-task, lo mismo realizamos con list-task.

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c board/save-task
CREATE src/app/board/save-task/save-task.component.html (24 bytes)
CREATE src/app/board/save-task/save-task.component.spec.ts (641 bytes)
CREATE src/app/board/save-task/save-task.component.ts (286 bytes)
CREATE src/app/board/save-task/save-task.component.css (0 bytes)
UPDATE src/app/app.module.ts (843 bytes)

C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c board/list-task
CREATE src/app/board/list-task/list-task.component.html (24 bytes)
CREATE src/app/board/list-task/list-task.component.spec.ts (641 bytes)
CREATE src/app/board/list-task/list-task.component.ts (286 bytes)
CREATE src/app/board/list-task/list-task.component.css (0 bytes)
UPDATE src/app/app.module.ts (941 bytes)
```

- 6. por ultimo, se agregan los componentes del admin que se escribe en la terminal así, ng g c admin/register-user, y así con los siguientes componentes, admin/list-user, admin/update-user, admin/update-role, admin/list-role, admin/register-role.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c admin/register-user
CREATE src/app/admin/register-user/register-user.component.html (28 bytes)
CREATE src/app/admin/register-user/register-user.component.spec.ts (669 bytes)
CREATE src/app/admin/register-user/register-user.component.ts (302 bytes)
CREATE src/app/admin/register-user/register-user.component.css (0 bytes)
UPDATE src/app/app.module.ts (1055 bytes)

C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c admin/list-user
CREATE src/app/admin/list-user/list-user.component.html (24 bytes)
CREATE src/app/admin/list-user/list-user.component.spec.ts (641 bytes)
CREATE src/app/admin/list-user/list-user.component.ts (286 bytes)
CREATE src/app/admin/list-user/list-user.component.css (0 bytes)
UPDATE src/app/app.module.ts (1153 bytes)

C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c admin/update-user
CREATE src/app/admin/update-user/update-user.component.html (26 bytes)
CREATE src/app/admin/update-user/update-user.component.spec.ts (655 bytes)
CREATE src/app/admin/update-user/update-user.component.ts (294 bytes)
CREATE src/app/admin/update-user/update-user.component.css (0 bytes)
UPDATE src/app/app.module.ts (1259 bytes)

C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c admin/update-role
CREATE src/app/admin/update-role/update-role.component.html (26 bytes)
CREATE src/app/admin/update-role/update-role.component.spec.ts (655 bytes)
CREATE src/app/admin/update-role/update-role.component.ts (294 bytes)
CREATE src/app/admin/update-role/update-role.component.css (0 bytes)
UPDATE src/app/app.module.ts (1365 bytes)

C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c admin/list-role
CREATE src/app/admin/list-role/list-role.component.html (24 bytes)
CREATE src/app/admin/list-role/list-role.component.spec.ts (641 bytes)
CREATE src/app/admin/list-role/list-role.component.ts (286 bytes)
CREATE src/app/admin/list-role/list-role.component.css (0 bytes)
UPDATE src/app/app.module.ts (1463 bytes)

C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g c admin/register-role
CREATE src/app/admin/register-role/register-role.component.html (28 bytes)
CREATE src/app/admin/register-role/register-role.component.spec.ts (669 bytes)
CREATE src/app/admin/register-role/register-role.component.ts (302 bytes)
CREATE src/app/admin/register-role/register-role.component.css (0 bytes)
```

- 7. se invoca cada etiqueta obteniendo el nombre del selector de la carpeta angular de cada componente, se elimina todo lo del componente principal solo se deja la ultima línea de router y allí se invocan los componentes así: `<app-header></app-header>`, este va antes del router y `<app-footer></app-footer>` después del router

```
backend > frontend > frontend > src > app > app.component.html > ...
```

```
1 <app-header></app-header>
2
3 <router-outlet></router-outlet>
4
5 <app-footer></app-footer>
```

```
backend > frontend > frontend > src > app > home > header > header.component.ts > ...
```

```
1 import { Component, OnInit } from '@angular/core';
2
3 @Component({
4   selector: 'app-header',
5   templateUrl: './header.component.html',
6   styleUrls: ['./header.component.css']
7 })
8 export class HeaderComponent implements OnInit {
9
10   constructor() { }
11
12   ngOnInit(): void {
13   }
14
15 }
16
```

```
backend > frontend > frontend > src > app > home > footer > footer.component.ts > ...
```

```
1 import { Component, OnInit } from '@angular/core';
2
3 @Component({
4   selector: 'app-footer',
5   templateUrl: './footer.component.html',
6   styleUrls: ['./footer.component.css']
7 })
8 export class FooterComponent implements OnInit {
9
10   constructor() { }
11
12   ngOnInit(): void {
13   }
14
15 }
16
```

- 8. creamos los services, que va a consumir la API, en la terminal escribimos `ng g s services/user`, luego lo mismo con `role` y con `board`.

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g s services/role
CREATE src/app/services/role.service.spec.ts (347 bytes)
CREATE src/app/services/role.service.ts (133 bytes)

C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g s services/user
Nothing to be done.

C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g s services/board
CREATE src/app/services/board.service.spec.ts (352 bytes)
CREATE src/app/services/board.service.ts (134 bytes)

C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>
```

- 9. importamos cada uno de los servicios, en el archivo `app.modules` y en la parte inferior de `providers`: colocamos el nombre de cada uno entre los parentesis. Para activarlos.

```
import { UserService } from './services/user.service';
import { RoleService } from './services/role.service';
import { BoardService } from './services/board.service';
```

```
//
providers: [UserService, RoleService, BoardService],
```


- 10. agregamos servicio de seguridad y escribimos así en la terminal, ng g s services/token-interceptor, esto es para interceptar los token que lleguen desde el home que se genera en el backend. Por ultimo agregamos guard para proteger la url, y se importan los dos igual que los anteriores, de igual manera se agregan por medio de la terminal, así:

```
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g s services/token-interceptor
CREATE src/app/services/token-interceptor.service.spec.ts (408 bytes)
CREATE src/app/services/token-interceptor.service.ts (145 bytes)

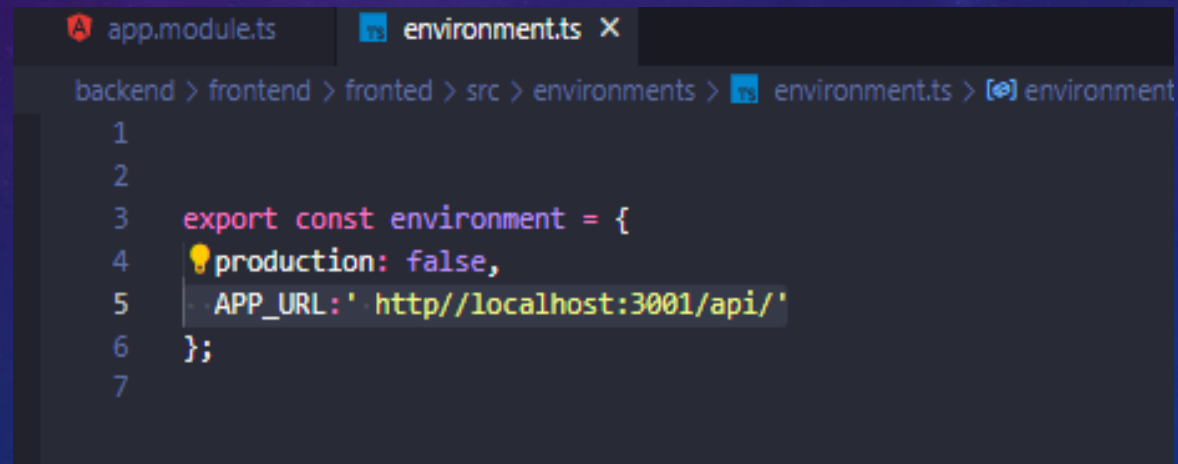
C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>ng g guard guard/auth
? Which interfaces would you like to implement? CanActivate
CREATE src/app/guard/auth.guard.spec.ts (331 bytes)
CREATE src/app/guard/auth.guard.ts (457 bytes)

C:\Users\Microsoft\Desktop\TEAMBOARD\backend\frontend\fronted>
```

```
import { UserService } from '../services/user.service';
import { RoleService } from '../services/role.service';
import { BoardService } from '../services/board.service';
import { TokenInterceptorService } from '../services/token-interceptor.service';
import { AuthGuard } from '../guard/auth.guard';
```

```
providers: [UserService, RoleService, BoardService, TokenInterceptorService, AuthGuard],
bootstrap: [AppComponent]
```


- 11. se eliminan todos los comentarios del archivo `enviroment.ts` y se coloca `APP_URL: 'http://localhost:3001/api/'` para agregar la ruta del backend cuando este funcionando angular.



```
app.module.ts  environment.ts X
backend > frontend > fronted > src > environments > environment.ts > environment
1
2
3 export const environment = {
4   production: false,
5   APP_URL: 'http://localhost:3001/api/'
6 };
7
```

- 12. para finalizar agregamos las rutas para navegar entre componentes.

```
const routes: Routes = [
  {
    path: 'listTask',
    component: ListTaskComponent,
  },
  {
    path: 'SaveTask',
    component: SaveTaskComponent,
  },
  {
    path: 'listRole',
    component: ListRoleComponent,
  },
  {
    path: 'UpdateRole',
    component: UpdateRoleComponent,
  },
  {
    path: 'UpdateUser',
    component: UpdateUserComponent,
  },
  {
    path: 'RegisterRole',
    component: RegisterRoleComponent,
  },
  {
    path: 'RegisterUser',
    component: RegisterUserComponent,
  },
  {
    path: 'ListUser',
    component: ListUserComponent,
  },
  {
    path: 'Register',
    component: RegisterComponent,
  },
  {
    path: 'Login',
    component: LoginComponent,
  },
];
```