

The Complete Map of

Project Anatomies



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The complete map of project anatomies

Andrei Pfeiffer

<https://andreipfeiffer.dev/blog/2026/project-anatomies>

My 2 decades dilemma

How to organize code into files and folders



*Folder structure for big projects:
package by type, layer or feature?*

Luigi Cardamone

<https://labs.madisoft.it/folder-structure-for-big-projects-package-by-type-layer-or-feature/>

```
// Group by type
```

```
/app
```

```
| /routes  
| /controllers  
| /templates  
| /types  
| /helpers  
└ /services
```

```
// Group by domain
```

```
/app
```

```
| /UserAccount  
| /Subscription  
└ /Invoice
```

Disclaimers

1. Frameworks

2. AI

Area: 10000 km²
Power: 6e+13 Wh

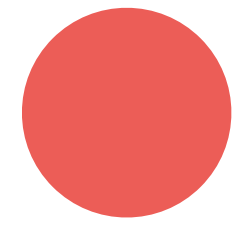


[3]

The Problem with Solar Energy in Africa

https://www.youtube.com/watch?v=7OpM_zKGE4o

 *Hospitals distribution*



services

distribution

The Village Doctor



L App.ts

```
// App.ts
```

```
/* controllers */
```

```
...
```

```
/* services */
```

```
...
```

```
/* utils */
```

```
...
```

```
// App.ts
```

```
/**
```

```
 * controllers */
```

```
 */
```

```
...
```

```
/**
```

```
 * services */
```

```
 */
```

```
...
```

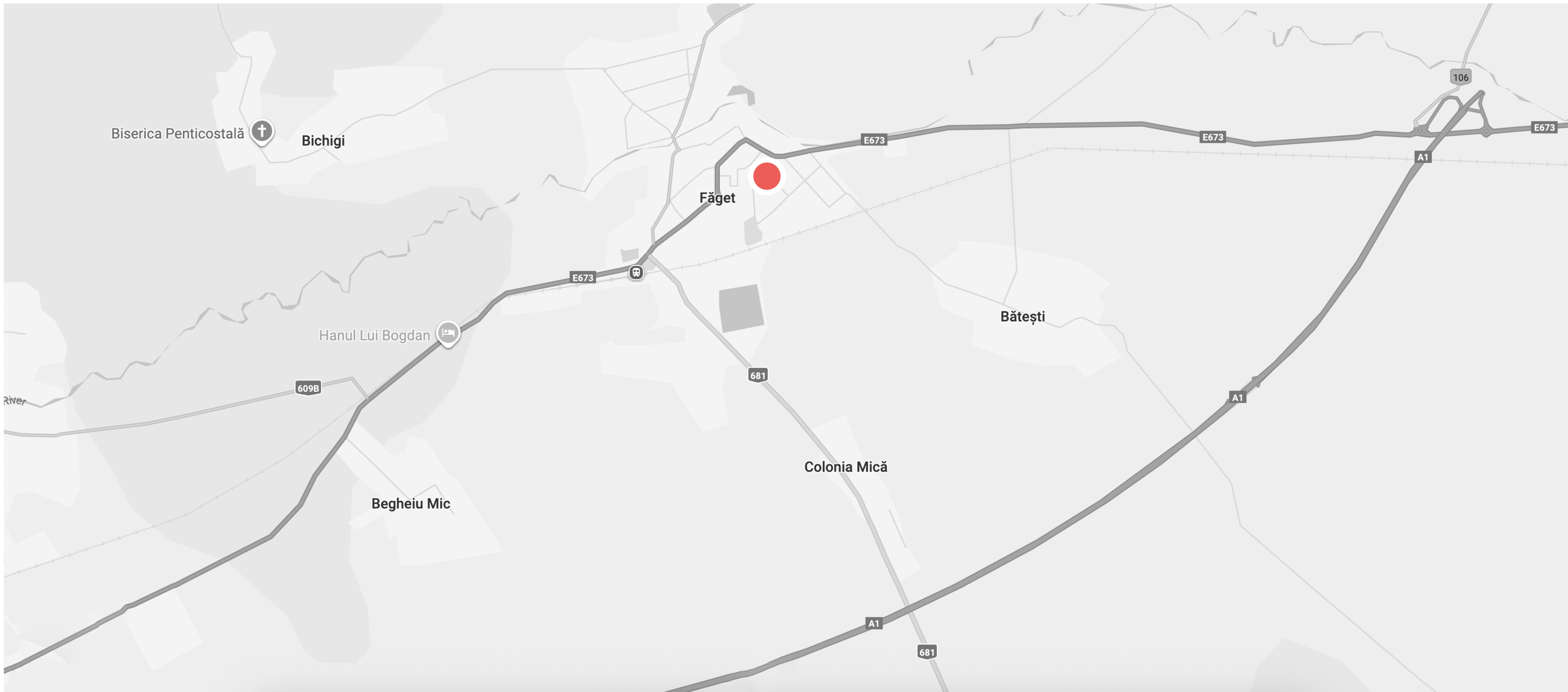
```
/**
```

```
 * utils */
```

```
 */
```

```
...
```

The Town Hospital



Biserica Pentecostală

Bichigi

Făget

Hanul Lui Bogdan

Begheiu Mic

Colonia Mică

Bătești

E673

E673

E673

E673

609B

681

A1

681

A1

A1

106

```
// App.ts
```

```
/**
```

```
 * controllers */
```

```
 */
```

```
...
```

```
/**
```

```
 * services */
```

```
 */
```

```
...
```

```
/**
```

```
 * utils */
```

```
 */
```

```
...
```

```
| App.ts  
└─ /src  
    │ routes.ts  
    │ controllers.ts  
    └─ services.ts  
    │ templates.ts  
    │ utils.ts  
    └─ types.ts
```

```
// src/services.ts
```

```
/* UserAccount services */
```

```
...
```

```
/* Subscription services */
```

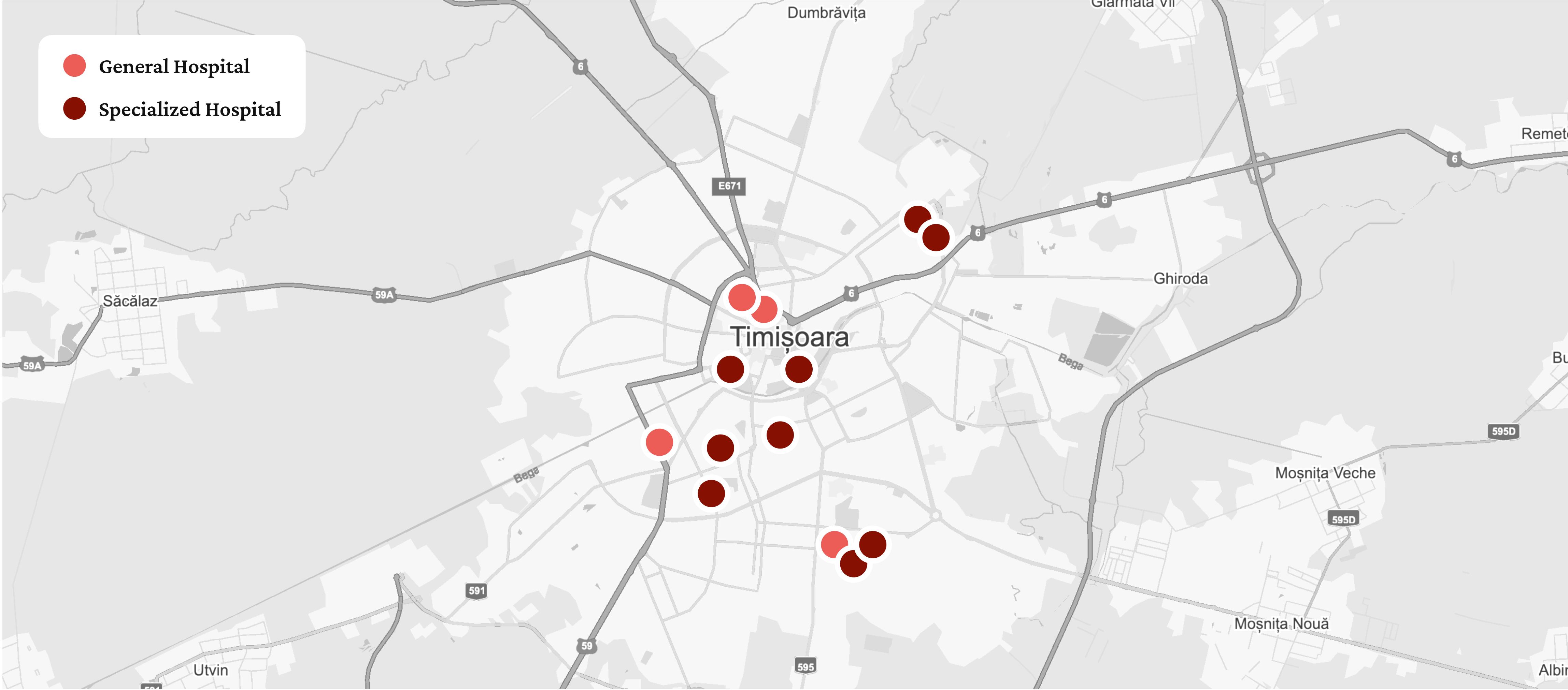
```
...
```

```
/* Invoice services */
```

```
...
```

The City Hospitals

- General Hospital
- Specialized Hospital



```
// /src/services.ts
```

```
/* UserAccount service */
```

```
...
```

```
/* Subscription service */
```

```
...
```

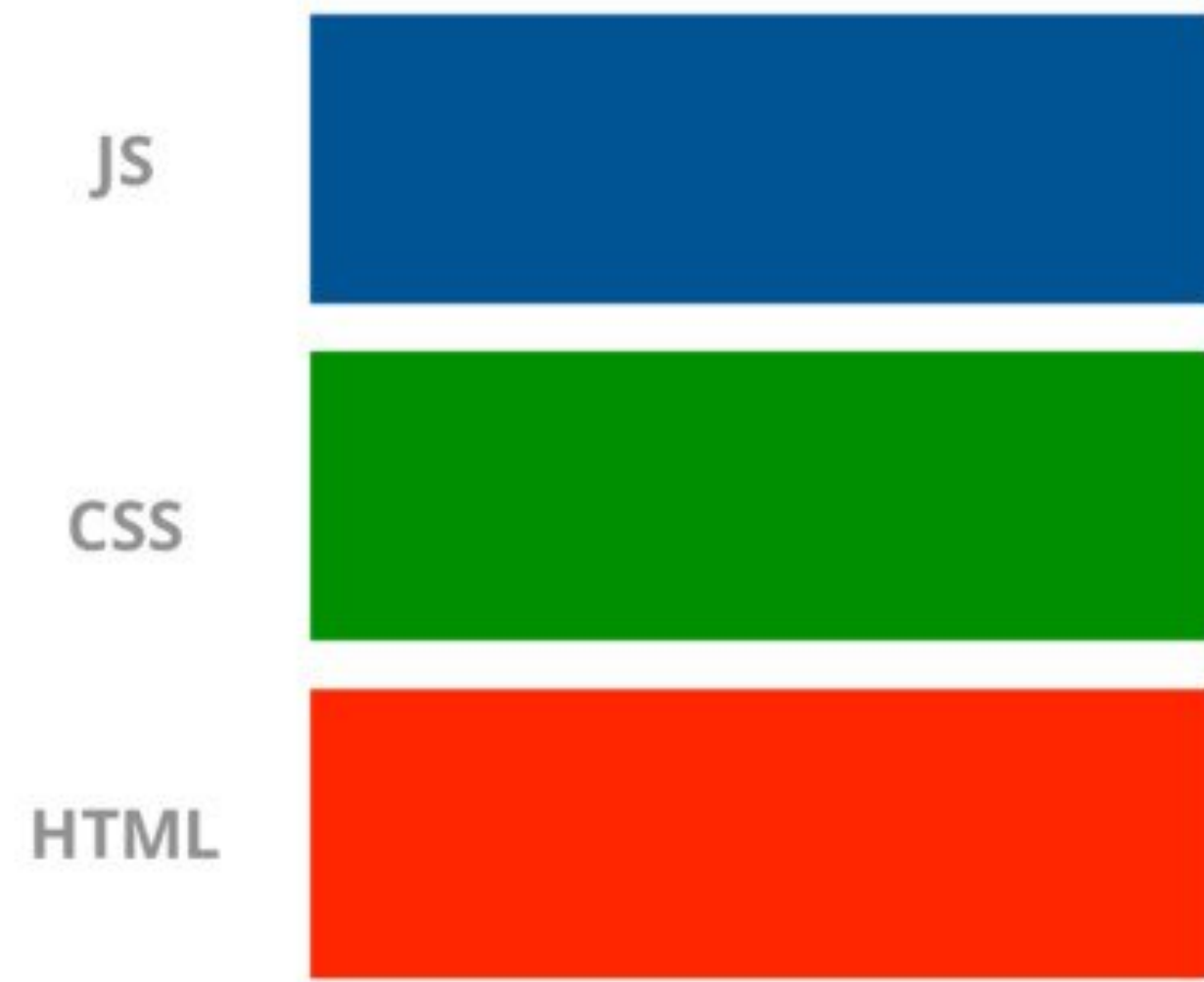
```
/* Invoice service */
```

```
...
```

```
| App.ts
└─ /src
    │
    │ └─ /services
    │     │
    │     │ └─ UserAccount.service.ts
    │     │ └─ Subscription.service.ts
    │     └─ Invoice.service.ts
    │
    │ └─ /routes
    │ └─ /controllers
    │ └─ /templates
    │ └─ /utils
    └─ /types
```

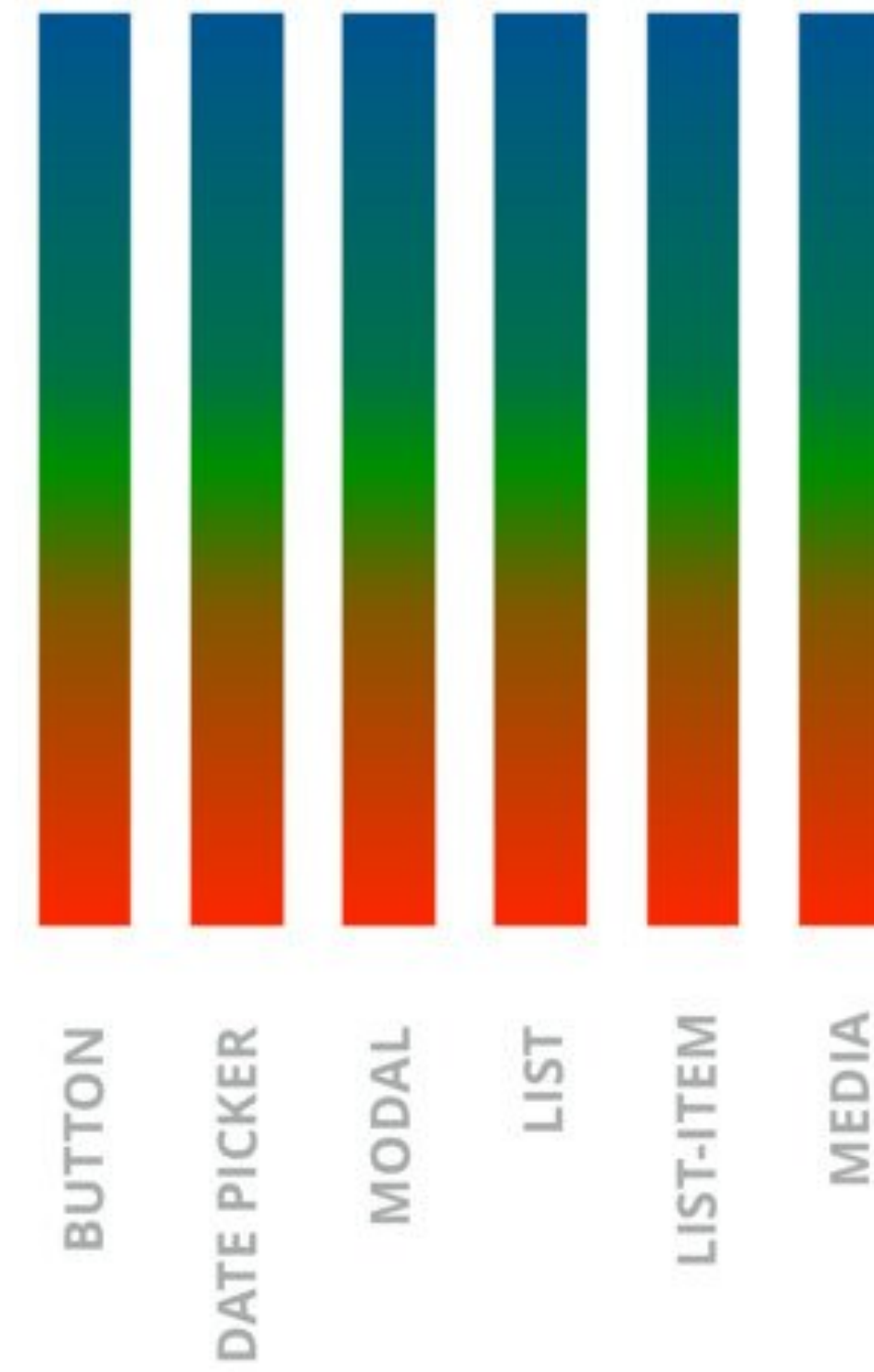
```
| App.ts
| /src
| | /services
| | | Subscription.service.ts
| | | ...
| | /routes
| | | Subscription.routes.ts
| | | ...
| | /controllers
| | | Subscription.controller.ts
| | | ...
| | /templates
| | | Subscription.template.ts
| | | ...
| | /utils
| | /types
| | | Subscription.types.ts
| | | ...
```

Separation of Concerns



Separation of Concerns

(only, from a different point of view)



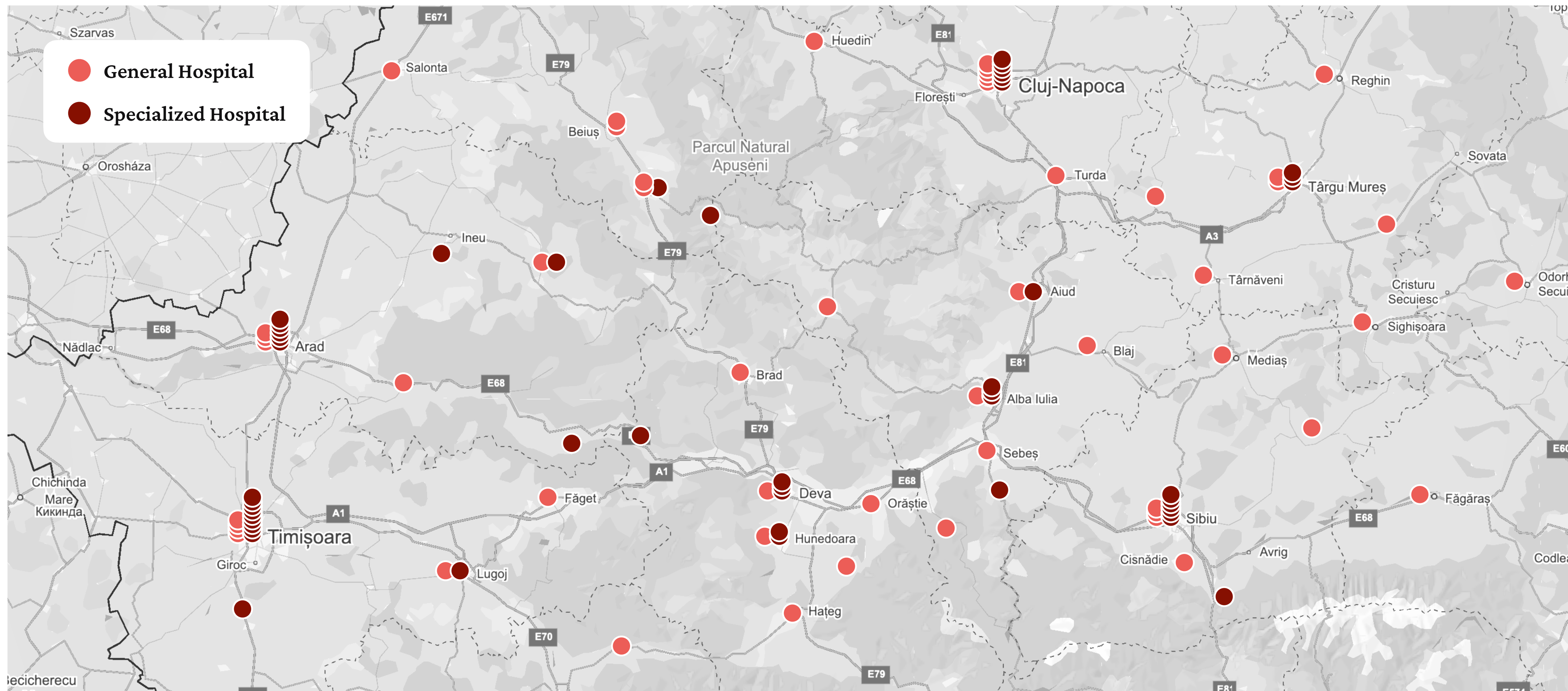


Colocation is king

Alex Moldovan

<https://alexmoldovan.dev/code-bites/colocation-is-king>

*Country-wide
hospitals distribution*



```
| App.ts
| /src
| | /routes
| | | Subscription.routes.ts
| | | ...
| | | /controllers
| | | | Subscription.controller.ts
| | | | ...
| | | /services
| | | | Subscription.service.ts
| | | | ...
| | | /templates
| | | | Subscription.template.ts
| | | | ...
| | | /utils
| | | /types
| | | | Subscription.types.ts
| | | | ...
```

```
| App.ts
|
└─ /src
    |
    |─ /Subscription
    |   |─ Subscription.routes.ts
    |   |─ Subscription.controller.ts
    |   |─ Subscription.service.ts
    |   |─ Subscription.template.ts
    |   └─ Subscription.types.ts
    |
    |─ /UserAccount
    |   └─ ...
    |
    └─ /Invoice
        └─ ...
```

Global scale?

Hybrid approaches



App.tsx
/pages
/modules
/shared

Group by layer



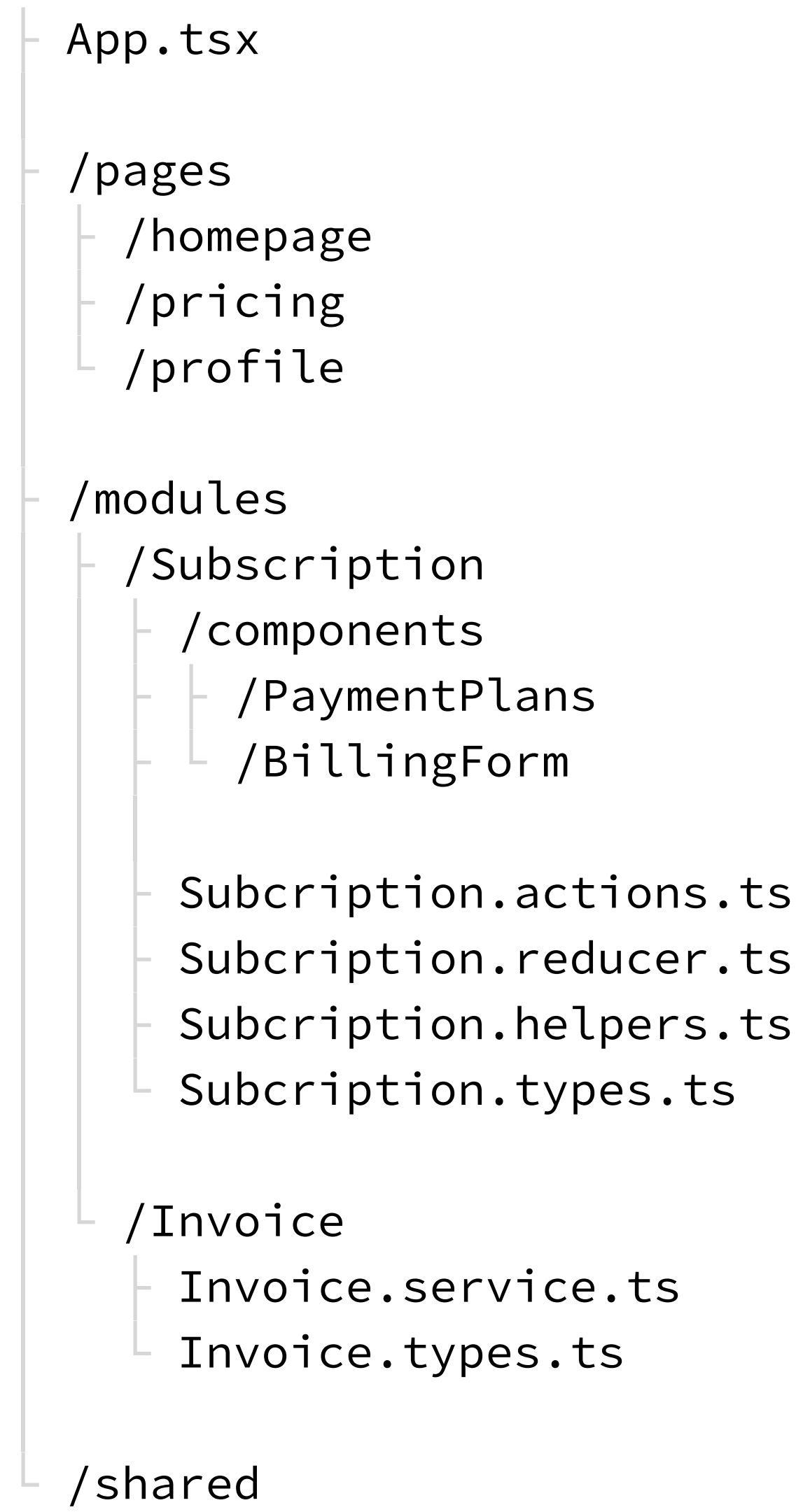
- App.tsx
 - /pages
 - /homepage
 - /pricing
 - /profile
 - /modules
 - /Subscription
 - /Invoice
 - /shared

| *Group by domain*

```
App.tsx
/pages
  /homepage
  /pricing
  /profile
/modules
  /Subscription
    /components
    Subscription.actions.ts
    Subscription.reducer.ts
    Subscription.helpers.ts
    Subscription.types.ts
  /Invoice
/shared
```

Group by type

```
├─ App.tsx
├─ /pages
│  ├─ /homepage
│  ├─ /pricing
│  └─ /profile
├─ /modules
│  ├─ /Subscription
│  │  ├─ /components
│  │  │  ├─ /PaymentPlans
│  │  │  └─ /BillingForm
│  │  └─ Subscription.actions.ts
│  │     Subscription.reducer.ts
│  │     Subscription.helpers.ts
│  │     Subscription.types.ts
│  └─ /Invoice
└─ /shared
```



```
App.tsx
/pages
  /homepage
  /pricing
  /profile
/modules
  /Subscription
    /components
      /PaymentPlans
      /BillingForm
    Subscription.actions.ts
    Subscription.reducer.ts
    Subscription.helpers.ts
    Subscription.types.ts
  /Invoice
    Invoice.service.ts
    Invoice.types.ts
/shared
  /services
  /utils
  /constants
```

Group by type

No inherent "better" solution.

Depends on scale.

*Human settlements vs software
evolution*

Thank You



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