

Go project structure (best practices)

WASA: Web and Software Architecture

Enrico Bassetti

Fantastic Coffee (decaffeinated)

“Best practice”

a working method, or set of working methods, that is officially accepted as being the best to use in a particular business or industry [...]

Definition of best practice from the *Cambridge Business English Dictionary* © Cambridge University Press

What?

“Fantastic Coffee (decaffeinated)” is an opinionated template we made.

It combines some best practices about Go.

- <https://gitlab.com/sapienzaapps/fantastic-coffee-decaffeinated>
- <https://github.com/sapienzaapps/fantastic-coffee-decaffeinated>

Fantastic Coffee (decaf) structure

cmd/

demo/

doc/

go.mod

go.sum

LICENSE

open-npm.sh

README.md

service/

vendor/

webui/

cmd/ contains executables.

Go code here should only present packages in a usable manner.

E.g.:

1. Read CLI options
2. Import packages and use functions to register API handlers
3. Start web server
4. Wait for termination signal

All packages should be here, as sub-directories. Nesting is possible.

E.g., *services/globaltime/* is the *globaltime* package.

It contains the source for all external packages (“dependencies”).

You should update it when you add/update/remove dependencies: `go mod vendor`

See <https://go.dev/ref/mod#vendoring>.

Contains a Vue.js project. We'll see the content in few weeks.

Let's dive into the *source*.

cmd/webapi/

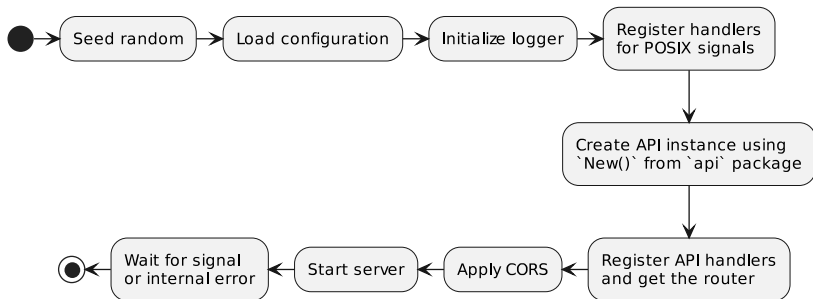
```
cmd/webapi/cors.go
```

```
cmd/webapi/load-configuration.go
```

```
cmd/webapi/main.go
```

```
cmd/webapi/register-web-ui.go
```

```
cmd/webapi/register-web-ui-stub.go
```



HTTP request wrappers

