# Manuale Progetto gr-gabriella-clean

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Questo manuale documenta l'intera struttura del progetto web gr-gabriella-clean, con mappatura ad albero dei file, moduli, funzionalità e glossario tecnico per la consultazione completa.

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## Struttura del progetto (cartelle e rami in grassetto)

```
/Users/gianluigigrassi/Desktop/gr-gabriella-clean
-- README.md
|-- app
  -- :api:save-product:
   -- admin
  | |-- edit
     | |-- [id]
  | |-- data
   | | |-- id
   | |-- page.js
  |-- api
  | |-- products
  | | |-- id
     | |-- route copy.js
   | |-- route.js
  -- save-product
     | |-- route.js
     -- upload-image
        -- route copy.js
         -- route.js
   |-- ar
   | |-- page.js
  |-- de
   | |-- page.js
   |-- en
   | |-- page.js
   -- es
   | |-- page.js
   -- favicon.ico
  |-- fr
   | |-- page.js
   |-- globals.css
   |-- it
   | |-- page.js
  |-- ja
   | |-- page.js
  |-- layout.js
   |-- page.js
   -- zh
     -- page.js
-- components
 -- CategoryButtons.js
 -- FlagLanguageSwitcher.js
|-- eslint.config.mjs
|-- jsconfig.json
|-- next-env.d.ts
|-- next.config.mjs
-- node_modules
-- @next
   | |-- env
      | |-- README.md
  | |-- package.json
      -- swc-darwin-x64
```

```
-- README.md
        |-- next-swc.darwin-x64.node
        |-- package.json
-- @swc
  -- helpers
       -- LICENSE
       |-- _
       |-- cjs
       |-- esm
       |-- package.json
       |-- scripts
       |-- src
-- @types
   -- node
       -- LICENSE
       |-- README.md
       -- assert
       |-- assert.d.ts
       |-- async_hooks.d.ts
       |-- buffer.buffer.d.ts
       |-- buffer.d.ts
       |-- child_process.d.ts
       |-- cluster.d.ts
       |-- compatibility
       |-- console.d.ts
       |-- constants.d.ts
       |-- crypto.d.ts
       |-- dgram.d.ts
       |-- diagnostics_channel.d.ts
       |-- dns
        -- dns.d.ts
       |-- dom-events.d.ts
        |-- domain.d.ts
       |-- events.d.ts
       |-- fs
       -- fs.d.ts
       |-- globals.d.ts
       |-- globals.typedarray.d.ts
        |-- http.d.ts
       |-- http2.d.ts
       |-- https.d.ts
       |-- index.d.ts
       |-- inspector.d.ts
       |-- module.d.ts
       |-- net.d.ts
        |-- os.d.ts
        |-- package.json
        |-- path.d.ts
       |-- perf_hooks.d.ts
       |-- process.d.ts
       |-- punycode.d.ts
       |-- querystring.d.ts
       -- readline
        |-- readline.d.ts
        -- repl.d.ts
       |-- sea.d.ts
        -- stream
```

```
|-- stream.d.ts
       |-- string_decoder.d.ts
       -- test.d.ts
       |-- timers
       |-- timers.d.ts
       |-- tls.d.ts
       -- trace_events.d.ts
       -- ts5.6
       |-- tty.d.ts
       |-- url.d.ts
       |-- util.d.ts
       |-- v8.d.ts
       |-- vm.d.ts
       |-- wasi.d.ts
       |-- worker_threads.d.ts
       |-- zlib.d.ts
    |-- prop-types
       -- LICENSE
       -- README.md
       |-- index.d.ts
       -- package.json
   -- react
       -- LICENSE
       -- README.md
       |-- canary.d.ts
       |-- experimental.d.ts
       |-- global.d.ts
       |-- index.d.ts
       |-- jsx-dev-runtime.d.ts
       -- jsx-runtime.d.ts
       |-- package.json
       |-- ts5.0
-- busboy
   -- LICENSE
   |-- README.md
   -- bench
       |-- bench-multipart-fields-100mb-big.js
       -- bench-multipart-fields-100mb-small.js
       |-- bench-multipart-files-100mb-big.js
       |-- bench-multipart-files-100mb-small.js
       |-- bench-urlencoded-fields-100pairs-small.js
       |-- bench-urlencoded-fields-900pairs-small-alt.js
   |-- lib
       -- index.js
       -- types
       |-- utils.js
   |-- package.json
   -- test
       |-- common.js
       -- test-types-multipart-charsets.js
       |-- test-types-multipart-stream-pause.js
       -- test-types-multipart.js
       |-- test-types-urlencoded.js
       |-- test.js
|-- caniuse-lite
   |-- LICENSE
    -- README.md
```

```
-- data
       |-- agents.js
       |-- browserVersions.js
       |-- browsers.js
       |-- features
       |-- features.js
       |-- regions
   -- dist
      |-- lib
       -- unpacker
   |-- package.json
-- client-only
  -- error.js
  -- index.js
  -- package.json
-- csstype
  -- LICENSE
  -- README.md
   |-- index.d.ts
   |-- index.js.flow
   -- package.json
|-- glob-to-regexp
  -- README.md
   |-- index.js
   -- package.json
  |-- test.js
-- graceful-fs
  -- LICENSE
   -- README.md
   -- clone.js
   |-- graceful-fs.js
   -- legacy-streams.js
  -- package.json
   |-- polyfills.js
-- js-tokens
  -- CHANGELOG.md
  -- LICENSE
   -- README.md
   |-- index.js
  -- package.json
|-- loose-envify
   -- LICENSE
   -- README.md
  |-- cli.js
   |-- custom.js
   |-- index.js
   -- loose-envify.js
   |-- package.json
   |-- replace.js
-- nanoid
   -- LICENSE
   |-- README.md
   -- async
     -- index.browser.cjs
       |-- index.browser.js
       |-- index.cjs
       |-- index.d.ts
```

```
|-- index.js
       |-- index.native.js
       |-- package.json
   -- bin
       |-- nanoid.cjs
   |-- index.browser.cjs
   |-- index.browser.js
   |-- index.cjs
   |-- index.d.cts
   |-- index.d.ts
   |-- index.js
   |-- nanoid.js
   -- non-secure
       |-- index.cjs
       |-- index.d.ts
       |-- index.js
       -- package.json
   |-- package.json
   -- url-alphabet
       |-- index.cjs
       -- index.js
       -- package.json
-- next
   -- README.md
   |-- amp.d.ts
   |-- amp.js
   -- app.d.ts
   |-- app.js
   |-- babel.d.ts
   |-- babel.js
   |-- cache.d.ts
   -- cache.js
   |-- client.d.ts
   |-- client.js
   |-- compat
       |-- router.d.ts
     -- router.js
   -- config.d.ts
    |-- config.js
   |-- constants.d.ts
   |-- constants.js
   |-- dist
       |-- bin
       |-- build
       -- cli
       |-- client
       -- compiled
       -- esm
       -- experimental
       -- export
       |-- lib
       -- pages
       |-- server
        -- shared
       -- src
       -- styled-jsx
        |-- telemetry
```

```
| |-- trace
   |-- document.d.ts
   |-- document.js
   |-- dynamic.d.ts
   |-- dynamic.js
   |-- error.d.ts
   |-- error.js
   |-- experimental
       -- testmode
   -- font
      |-- google
       |-- index.d.ts
       -- local
   -- head.d.ts
   |-- head.js
   |-- headers.d.ts
   -- headers.js
   -- image-types
   | |-- global.d.ts
   |-- image.d.ts
   |-- image.js
   |-- index.d.ts
   |-- jest.d.ts
   |-- jest.js
   -- legacy
     |-- image.d.ts
       -- image.js
   |-- license.md
   |-- link.d.ts
   |-- link.js
   |-- navigation-types
       -- compat
   |-- navigation.d.ts
   |-- navigation.js
   |-- package.json
   |-- router.d.ts
   |-- router.js
   |-- script.d.ts
   |-- script.js
   |-- server.d.ts
   |-- server.js
   |-- types
     |-- compiled.d.ts
     |-- global.d.ts
      -- index.d.ts
   |-- web-vitals.d.ts
   |-- web-vitals.js
-- picocolors
   -- LICENSE
   -- README.md
  -- package.json
   |-- picocolors.browser.js
   |-- picocolors.d.ts
   |-- picocolors.js
   |-- types.d.ts
-- postcss
   -- LICENSE
```

```
-- README.md
|-- lib
    |-- at-rule.d.ts
    |-- at-rule.js
    |-- comment.d.ts
     |-- comment.js
    -- container.d.ts
    |-- container.js
    |-- css-syntax-error.d.ts
    |-- css-syntax-error.js
    |-- declaration.d.ts
    |-- declaration.js
    |-- document.d.ts
    |-- document.js
    |-- fromJSON.d.ts
    |-- fromJSON.js
    |-- input.d.ts
    |-- input.js
    |-- lazy-result.d.ts
    -- lazy-result.js
    |-- list.d.ts
    |-- list.js
    |-- map-generator.js
     |-- no-work-result.d.ts
    |-- no-work-result.js
    -- node.d.ts
    |-- node.js
    |-- parse.d.ts
    |-- parse.js
    |-- parser.js
     |-- postcss.d.mts
     |-- postcss.d.ts
     |-- postcss.js
    |-- postcss.mjs
    |-- previous-map.d.ts
    |-- previous-map.js
    |-- processor.d.ts
    |-- processor.js
     |-- result.d.ts
    -- result.js
    |-- root.d.ts
    |-- root.js
    -- rule.d.ts
    -- rule.js
    |-- stringifier.d.ts
     |-- stringifier.js
     |-- stringify.d.ts
    |-- stringify.js
    |-- symbols.js
    |-- terminal-highlight.js
    |-- tokenize.js
    |-- warn-once.js
     |-- warning.d.ts
     |-- warning.js
|-- package.json
react
-- LICENSE
```

```
-- README.md
    |-- cjs
       |-- react-jsx-dev-runtime.development.js
       |-- react-jsx-dev-runtime.production.min.js
       |-- react-jsx-dev-runtime.profiling.min.js
       |-- react-jsx-runtime.development.js
       -- react-jsx-runtime.production.min.js
       -- react-jsx-runtime.profiling.min.js
       |-- react.development.js
       |-- react.production.min.js
       |-- react.shared-subset.development.js
       |-- react.shared-subset.production.min.js
   |-- index.js
   -- jsx-dev-runtime.js
   |-- jsx-runtime.js
   |-- package.json
   |-- react.shared-subset.js
   -- umd
       |-- react.development.js
       |-- react.production.min.js
       |-- react.profiling.min.js
-- react-dom
   |-- LICENSE
   -- README.md
    |-- cjs
       |-- react-dom-server-legacy.browser.development.js
       |-- react-dom-server-legacy.browser.production.min.js
       |-- react-dom-server-legacy.node.development.js
       |-- react-dom-server-legacy.node.production.min.js
       |-- react-dom-server.browser.development.js
       |-- react-dom-server.browser.production.min.js
       |-- react-dom-server.node.development.js
       |-- react-dom-server.node.production.min.js
       |-- react-dom-test-utils.development.js
       |-- react-dom-test-utils.production.min.js
       |-- react-dom.development.js
       |-- react-dom.production.min.js
       |-- react-dom.profiling.min.js
   |-- client.js
   |-- index.js
   |-- package.json
   |-- profiling.js
   -- server.browser.js
   |-- server.js
   -- server.node.js
   |-- test-utils.js
   -- umd
       |-- react-dom-server-legacy.browser.development.js
       |-- react-dom-server-legacy.browser.production.min.js
       |-- react-dom-server.browser.development.js
       |-- react-dom-server.browser.production.min.js
       |-- react-dom-test-utils.development.js
       |-- react-dom-test-utils.production.min.js
       |-- react-dom.development.js
       |-- react-dom.production.min.js
       |-- react-dom.profiling.min.js
-- scheduler
```

```
|-- LICENSE
    -- README.md
    |-- cjs
       |-- scheduler-unstable_mock.development.js
       |-- scheduler-unstable_mock.production.min.js
       |-- scheduler-unstable_post_task.development.js
       -- scheduler-unstable_post_task.production.min.js
       -- scheduler.development.js
       |-- scheduler.production.min.js
    |-- index.js
   |-- package.json
   |-- umd
       |-- scheduler-unstable_mock.development.js
       |-- scheduler-unstable_mock.production.min.js
       |-- scheduler.development.js
       |-- scheduler.production.min.js
       |-- scheduler.profiling.min.js
   |-- unstable_mock.js
   |-- unstable_post_task.js
-- source-map-js
   -- LICENSE
   -- README.md
   |-- lib
       |-- array-set.js
       |-- base64-vlq.js
       |-- base64.js
       -- binary-search.js
       |-- mapping-list.js
       |-- quick-sort.js
       |-- source-map-consumer.d.ts
       |-- source-map-consumer.js
       -- source-map-generator.d.ts
       |-- source-map-generator.js
       |-- source-node.d.ts
       |-- source-node.js
       |-- util.js
   |-- package.json
   -- source-map.d.ts
   |-- source-map.js
-- streamsearch
   |-- LICENSE
   |-- README.md
   |-- lib
     -- sbmh.js
   |-- package.json
   |-- test
       -- test.js
-- styled-jsx
   |-- babel-test.js
   |-- babel.js
   -- css.d.ts
   |-- css.js
   |-- dist
       -- babel
       |-- index
       -- webpack
    |-- global.d.ts
```

```
|-- index.d.ts
   |-- index.js
   |-- lib
     |-- style-transform.js
       -- stylesheet.js
   |-- license.md
   |-- macro.d.ts
   |-- macro.js
   |-- package.json
   -- readme.md
   |-- style.d.ts
   |-- style.js
   |-- webpack.js
-- tslib
  -- CopyrightNotice.txt
   -- LICENSE.txt
   |-- README.md
   -- SECURITY.md
   -- modules
      -- index.d.ts
   | |-- index.js
   | |-- package.json
   |-- package.json
   |-- tslib.d.ts
   -- tslib.es6.html
   |-- tslib.es6.js
   |-- tslib.es6.mjs
   -- tslib.html
   -- tslib.js
-- typescript
   |-- LICENSE.txt
   |-- README.md
   -- SECURITY.md
   |-- ThirdPartyNoticeText.txt
   |-- bin
   | |-- tsc
     -- tsserver
   |-- lib
       |-- _tsc.js
       |-- _tsserver.js
       -- _typingsInstaller.js
       |-- cs
       |-- de
       |-- es
       |-- fr
       |-- it
       |-- ja
       |-- ko
       |-- lib.d.ts
       |-- lib.decorators.d.ts
       |-- lib.decorators.legacy.d.ts
       |-- lib.dom.asynciterable.d.ts
       |-- lib.dom.d.ts
       |-- lib.dom.iterable.d.ts
       |-- lib.es2015.collection.d.ts
       -- lib.es2015.core.d.ts
       |-- lib.es2015.d.ts
```

```
|-- lib.es2015.generator.d.ts
|-- lib.es2015.iterable.d.ts
|-- lib.es2015.promise.d.ts
|-- lib.es2015.proxy.d.ts
|-- lib.es2015.reflect.d.ts
|-- lib.es2015.symbol.d.ts
|-- lib.es2015.symbol.wellknown.d.ts
|-- lib.es2016.array.include.d.ts
|-- lib.es2016.d.ts
|-- lib.es2016.full.d.ts
|-- lib.es2016.intl.d.ts
|-- lib.es2017.arraybuffer.d.ts
|-- lib.es2017.d.ts
-- lib.es2017.date.d.ts
|-- lib.es2017.full.d.ts
|-- lib.es2017.intl.d.ts
|-- lib.es2017.object.d.ts
|-- lib.es2017.sharedmemory.d.ts
|-- lib.es2017.string.d.ts
|-- lib.es2017.typedarrays.d.ts
|-- lib.es2018.asyncgenerator.d.ts
|-- lib.es2018.asynciterable.d.ts
|-- lib.es2018.d.ts
|-- lib.es2018.full.d.ts
|-- lib.es2018.intl.d.ts
|-- lib.es2018.promise.d.ts
|-- lib.es2018.regexp.d.ts
|-- lib.es2019.array.d.ts
|-- lib.es2019.d.ts
|-- lib.es2019.full.d.ts
-- lib.es2019.intl.d.ts
|-- lib.es2019.object.d.ts
|-- lib.es2019.string.d.ts
|-- lib.es2019.symbol.d.ts
|-- lib.es2020.bigint.d.ts
|-- lib.es2020.d.ts
|-- lib.es2020.date.d.ts
-- lib.es2020.full.d.ts
|-- lib.es2020.intl.d.ts
|-- lib.es2020.number.d.ts
|-- lib.es2020.promise.d.ts
|-- lib.es2020.sharedmemory.d.ts
|-- lib.es2020.string.d.ts
|-- lib.es2020.symbol.wellknown.d.ts
|-- lib.es2021.d.ts
|-- lib.es2021.full.d.ts
|-- lib.es2021.intl.d.ts
|-- lib.es2021.promise.d.ts
|-- lib.es2021.string.d.ts
|-- lib.es2021.weakref.d.ts
|-- lib.es2022.array.d.ts
|-- lib.es2022.d.ts
|-- lib.es2022.error.d.ts
|-- lib.es2022.full.d.ts
|-- lib.es2022.intl.d.ts
-- lib.es2022.object.d.ts
|-- lib.es2022.regexp.d.ts
```

```
|-- lib.es2022.string.d.ts
        |-- lib.es2023.array.d.ts
        |-- lib.es2023.collection.d.ts
        |-- lib.es2023.d.ts
        |-- lib.es2023.full.d.ts
        |-- lib.es2023.intl.d.ts
        |-- lib.es2024.arraybuffer.d.ts
       |-- lib.es2024.collection.d.ts
        |-- lib.es2024.d.ts
        |-- lib.es2024.full.d.ts
        |-- lib.es2024.object.d.ts
       |-- lib.es2024.promise.d.ts
       |-- lib.es2024.regexp.d.ts
       |-- lib.es2024.sharedmemory.d.ts
       |-- lib.es2024.string.d.ts
       |-- lib.es5.d.ts
        |-- lib.es6.d.ts
        |-- lib.esnext.array.d.ts
       |-- lib.esnext.collection.d.ts
       |-- lib.esnext.d.ts
       |-- lib.esnext.decorators.d.ts
        |-- lib.esnext.disposable.d.ts
       |-- lib.esnext.float16.d.ts
        |-- lib.esnext.full.d.ts
       |-- lib.esnext.intl.d.ts
       |-- lib.esnext.iterator.d.ts
       |-- lib.esnext.promise.d.ts
       |-- lib.scripthost.d.ts
       |-- lib.webworker.asynciterable.d.ts
       |-- lib.webworker.d.ts
        |-- lib.webworker.importscripts.d.ts
        |-- lib.webworker.iterable.d.ts
       |-- pl
       |-- pt-br
       |-- ru
       |-- tr
       |-- tsc.js
       |-- tsserver.js
       |-- tsserverlibrary.d.ts
       |-- tsserverlibrary.js
       |-- typesMap.json
       |-- typescript.d.ts
       |-- typescript.js
       |-- typingsInstaller.js
       |-- watchGuard.js
        -- zh-cn
        |-- zh-tw
   |-- package.json
-- undici-types
   -- LICENSE
   -- README.md
   |-- agent.d.ts
   |-- api.d.ts
   |-- balanced-pool.d.ts
   |-- cache.d.ts
   |-- client.d.ts
    |-- connector.d.ts
```

```
-- content-type.d.ts
       |-- cookies.d.ts
       |-- diagnostics-channel.d.ts
      -- dispatcher.d.ts
       -- env-http-proxy-agent.d.ts
       |-- errors.d.ts
      -- eventsource.d.ts
       |-- fetch.d.ts
       |-- file.d.ts
       |-- filereader.d.ts
      |-- formdata.d.ts
       |-- global-dispatcher.d.ts
       |-- global-origin.d.ts
      -- handlers.d.ts
      |-- header.d.ts
       -- index.d.ts
       |-- interceptors.d.ts
      -- mock-agent.d.ts
       |-- mock-client.d.ts
       |-- mock-errors.d.ts
      -- mock-interceptor.d.ts
      |-- mock-pool.d.ts
       |-- package.json
       -- patch.d.ts
      |-- pool-stats.d.ts
      |-- pool.d.ts
       -- proxy-agent.d.ts
      -- readable.d.ts
     |-- retry-agent.d.ts
      -- retry-handler.d.ts
       |-- util.d.ts
       |-- webidl.d.ts
       -- websocket.d.ts
   -- watchpack
       -- LICENSE
       -- README.md
       |-- lib
          -- DirectoryWatcher.js
       | |-- LinkResolver.js
       | |-- getWatcherManager.js
         |-- reducePlan.js
           |-- watchEventSource.js
          -- watchpack.js
       -- package.json
|-- package-lock.json
|-- package.json
|-- postcss.config.mjs
|-- public
   |-- DSC00229.JPG
   -- data
   | |-- products.json
   -- file.svg
   |-- gg.jpg
   |-- gianluigi.jpg
   |-- globe.svg
   -- hero.png
   -- next.svg
```

145 directories, 601 files

## Moduli e Funzionalità

[ADMIN] Path: app/admin

Funzione: Gestione dei prodotti: aggiunta, modifica, rimozione.

[EDIT] Path: app/admin/edit

Funzione: Modifica prodotto specifico tramite ID.

[API] Path: app/api

Funzione: API backend per upload, salvataggio e recupero prodotti.

[COMPONENTS] Path: components

Funzione: Componenti riutilizzabili dell'interfaccia utente.

[PUBLIC] Path: public

Funzione: Contiene immagini, file pubblici e risorse statiche.

[LAYOUT.JS] Path: app/layout.js

Funzione: Definisce la struttura globale dell'applicazione.

[GLOBALS.CSS] Path: app/globals.css

Funzione: Stili CSS applicati globalmente.

[PAGE.JS] Path: app/page.js

Funzione: Homepage dell'applicazione.

[FAVICON.ICO] Path: app/favicon.ico

Funzione: Icona del sito.

## Glossario tecnico

## Cartella

Contenitore che può contenere file o altre cartelle.

## File

Documento o script eseguibile (.js, .tsx, .json, ecc.).

#### Root

La directory principale di un progetto.

#### Modulo

Sezione funzionale o logica del codice (es. admin, api).

#### API

Interfaccia per scambiare dati tra frontend e backend.

#### JSON

Formato dati leggero utilizzato per configurazioni o archiviazione.

## Next.js

Framework React per applicazioni web moderne.

## Component

Elemento riutilizzabile dell'interfaccia in React.

## Layout

Struttura visiva ricorrente usata in tutte le pagine.

## Path

Percorso di un file o cartella nel progetto.

## Upload

Caricamento di un file sul server o nel progetto.