Project Structure

This project is based on a legacy codebase that was originally derived from a GeneWeb system written in OCaml. The folder structure has been carefully designed to ensure the code is both maintainable and scalable, while also preserving compatibility with the original system.

Each folder in the repository **must contain a README.md file** describing its purpose, usage, and relevant notes. This helps new contributor and maintainers to quickly understand the role of each module.

Each module should contains tests folder to assure that all function work properly

Directory Tree example

```
python/
 README.md
                  → Main project documentation
  lib/
             → Main lib directory for all tools
    db/
               → Database tools for geneweb
                  → Simple gedocm parser for gedcom 5.5.1 and upper
    gedcom/
 scripts/
  README.md
                  → Scripts project documentation
  consang/
   README.md
                   → Docs for consanguinity calculation module
              → All tests for consang (unit, integration etc...)
   tests/
                → Main makefile for all tests
   Makefile
  gwb2ged/
   README.md
                   → Docs for GeneWeb → GEDCOM converter
   tests/
              → All tests for gwb2ged (unit, integration etc...)
                → Main makefile for all tests
   Makefile
  ged2gwb/
   README.md
                   → Docs for GEDCOM → GeneWeb converter
```

Project Structure

```
tests/ → All tests for ged2gwb (unit, integration etc...)

Makefile → Main makefile for all tests

gwc/

README.md → Docs for GeneWeb db creator

tests/ → All tests for gwc (unit, integration etc...)
...
```

Directory Details

python/

- Integration root containing the GeneWeb binaries, test infrastructure, and utility scripts.
- Contains:
 - scripts/ → Build, cleanup, and migration utilities.
 - Binaries → Core GeneWeb tools.

lib/

- Core of Geneweb system:
 - db/ → Geneweb database tools using msgpack
 - gedcom/ → Gedcom parser tools

scripts/

- General-purpose scripts for maintenance, data generation, and deployment.
- Includes both Python and shell scripts.

consang/

 Calculates the consanguinity level of individuals and synchronizes it with the base

gwb2ged/

- Converts GeneWeb → GEDCOM.
- Useful for exporting genealogical data into standard GEDCOM format.

Project Structure 2

ged2gwb/

- Converts **GEDCOM** → **GeneWeb**.
- Essential for importing genealogical data from external sources.

gwd/

• The main web server for Geneweb

gwc/

• GeneWeb Compiler: manages and creates the genealogical databases.

Project Structure 3