

PROJECT DIRECTORIES

/aire : generated at initialization and maintained by Alire, do not edit
/config : generated at initialization and maintained by Alire, do not edit
srp01_web_config.ads : contains some constants, build profile and default build profile
srp01_web_config.gpr : manage dependencies, generated by Alire, do not edit
srp01_web_config.h : for C/C++ parts, generated by Alire, do not edit
/bin : executable build
/lib : libraries outside Alire management
/obj : objects build
/src : sources
README.md : readme project file
alire.toml : user editable Alire project, specifies dependencies and compiler flags
gnatremote.cfg : gnatremote tool editable config file (see ADEL-doc Ada Development Environnement for Linux)
gnatremote.log : gnatremote log
srp01_web.gpr : user editable GNATproject file
pragmas.adc : pragmas editable config file

Gprbuild reads Exec_Dir and Main
to produce executable in bin

srp01_web.gpr - USER EDITABLE GNAT PROJECT FILE

with "config/srp01_web_config.gpr";

project Srp01_Web is

for Languages use ("Ada", "C");
for Source_Dirs use ("src/**", "../hex01/**", "../L22/lib/**");
for Create_Missing_Dirs use "True";
for Object_Dir use "obj/" & Srp01_Web_Config_Build_Profile;
for Exec_Dir use "bin";
for Main use ("srp01_web");

package Compiler is
for Default_Switches ("Ada") use Srp01_Web_Config_Ada_Compiler_Switches;
for Switches ("s-memory.adb") use ("gnatg");
for Local_Configuration_Pragmas use "pragmas.adc";
end Compiler;

package Binder is
-- -static : RTS statically linked
-- -Es: Store tracebacks in exception occurrences, and enable symbolic tracebacks
for Default_Switches ("Ada") use ("Es");
end Binder;

Common_Linker_Options := (""); -- -static : RTS statically linked
-- Libmysql handling
Common_Linker_Options := Common_Linker_Options & ("lmysqlclient");
-- SQLite C source handling
Common_Linker_Options := Common_Linker_Options & ("L22/lib/sqlite", "-lsqite3", "-lcurl");
-- Libcurl handling
Common_Linker_Options := Common_Linker_Options & ("lcurl");

package Linker is
for Default_Switches ("ada") use Common_Linker_Options & ("g");
end Linker;

package Builder is
-- -d Display compilation process
-- -j0 Use num processes to compile 0=all platform cores are used
-- -s Recompile if compiler switches have changed
for Default_Switches ("ada") use ("j0", "-s");
end Builder;

end Hex01_Web;

pragmas.adc - USER EDITABLE PRAGMAS PROJECT FILE

pragma Initialize_Scalars;
-- https://gcc.gnu.org/onlinedocs/gcc-4.6.3/gnat_rm/Pragma-Initialize_005fScalars.html

pragma Warnings (Off, "unimplemented*");
-- UXStrings unimplemented pragmas

pragma Warnings (Off, "Item");
-- gnat-sockets-connection_state_machine.adb:808:17: warning: formal parameter "Item" is
read but never assigned [-gnatvw]

Gprbuild reads Build_Profile and
Ada_Compiler_Switches in
config/srp01_web_config.gpr

config/srp01_web_config.gpr - GENERATED BY ALIRE AT EACH BUILD: DO NOT EDIT!

-- Configuration for hex01_web generated by Alire
with "gnatcoll.gpr";
with "gnatcoll_core.gpr";
with "gnatcoll_minimal.gpr";
with "gnatcoll_projects.gpr";
abstract project Srp01_Web_Config is
Crate_Version := "0.1.0-dev";
Crate_Name := "srp01_web";

Alire_Host_OS := "linux";

Alire_Host_Arch := "x86_64";

Alire_Host_Distro := "ubuntu";
Ada_Compiler_Switches := External_As_List ("ADAFLAGS", "");
Ada_Compiler_Switches := Ada_Compiler_Switches &

(
"fno-inline"
,"Og" -- Optimize for debug
,"g" -- Generate debug info
,"gnata" -- Enable assertions and contracts
,"gnatVa" -- All validity checks
,"fstack-check"
,"gnato" -- Enable numeric overflow checking
,"gnateE" -- Extra information in exception messages
,"gnateF"
,"gnatwD"
,"gnatwH"
,"gnatwY"
,"gnatya" -- Check attribute casing
,"gnatyE" -- Check end/exit labels
,"gnatyf" -- No form feeds or vertical tabs
,"gnatyh" -- No horizontal tabs
,"gnatyk" -- Check keyword casing
,"gnatyM160"
,"gnatyn" -- Check casing of entities in Standard
,"gnatyp" -- Check pragma casing
,"gnatyr" -- Check identifier references casing
,"gnat2022" -- Ada 2022 Mode
,"gnatW8" -- UTF-8 encoding for wide characters
);

type Build_Profile_Kind is ("release", "validation", "development");
Build_Profile : Build_Profile_Kind := "development";

end srp01_Web_Config;

Alire reads [depends-on]
to generate dependencies in
config/srp01_web_config.gpr

alire.toml - USER EDITABLE ALIRE PROJECT FILE

name = "srp01_web"
description = "Dispensers management"
version = "0.1.0-dev"

authors = ["Stéphane Rivière"]
maintainers = ["Sowebio SARL <development@soweb.io>"]
maintainers-logins = ["github-username"]
licenses = "LGPL-3.0-or-later"
website = ""
tags = []

executables = ["bin/srp01_web"]

[[depends-on]]
gnat = "^14"

[[depends-on]]
gnatcoll = "^25.0.0"

[build-switches]
Ada 2022
development.ada_version = "Ada2022"
Both brackets and UTF-8 encodings will be recognized (1)
development.source_encoding = "utf_8"
Debug on, assertions enabled, pragma Assert and pragma Debug to be activated
development.debug_info = ["-g", "-gnata"]
Enable selected validity checking mode (2)
development.runtime_checks = ["gnatVa", "-fstack-check", "-gnato", "-gnateE", "-gnateF"]
Enable selected warning modes (3)
development.compile_checks = ["gnatwD", "-gnatwH", "-gnatw.Y"]
Enable selected style checks (4)
development.style_checks = ["gnatya", "-gnatyE", "-gnatyf", "-gnatyh", "-gnatyk", "-gnatyM160", "-gnatyn", "-gnatyp", "-gnatyr"]
No inlining of subprograms, optimize when debugging
development.optimization = ["-fno-inline", "-Og"]

Alire reads [build-swithes]
to generate auto-commented
Ada_Compiler_Switches

v0.1 - sr - 20240208 - initial release

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Relationships between files for a project using Alire, Gprbuild and GNAT

FILE : sow-ada-relationships between project files-AAAAMMJJ.diagram
SIZE : A3
SHEET : 1/1