Configuration Module Class Diagram

Ⓒ TOMLLoader

-_instance: Optional[TOMLLoader]
-_initialized: bool
+debug: bool
+disp: Disp
-_config_toml: Optional[Dict[str, Any]]
-_project_root: Optional[Path]

+__new__(cls) TOMLLoader
+__init__(debug: Optional[bool]) None
-_find_project_root() Path
-_search_directory_for_file(directory: Path, filename: str, current_depth: int, max_depth: int) Optional[Path]
-_find_file(filename: str, max_depth: int) Optional[Path]
+load_toml(force_reload: bool, custom_path: Optional[str]) Dict[str, Any]
+load_config_toml(force_reload: bool, custom_path: Optional[str]) Dict[str, Any]
+get_toml_value(*keys: str, default: Any) Any
+get_config_value(*keys: str, default: Any) Any
+clear_cache() None
+get_project_root() Path

Ⓒ EnvLoader

-_instance: Optional[EnvLoader]
-_initialized: bool
+debug: bool
+disp: Disp
-_env_vars: Optional[Dict[str, str]]
-_project_root: Optional[Path]

+__new__(cls) EnvLoader
+__init__(debug: Optional[bool]) None

+__init__ calls load_env_file()
-_find_project_root() Path
-_search_directory_for_env(directory: Path, current_depth: int, max_depth: int) Optional[Path]
-_find_env_file() Optional[Path]
+load_env_file(force_reload: bool, merge_os_environ: bool, custom_path: Optional[str]) Dict[str, str]
-_parse_env_file(env_path: Path) Dict[str, str]
+get_env_value(key: str, default: Optional[str]) Optional[str]
+get_environment_variable(variable_name: str) str
+apply_to_os_environ() None
+clear_cache() None
+get_project_root() Path

Note:
Implements Singleton pattern
Returns same instance on every call

Note:
Searches for markers:
- docker-compose.yaml
- requirements.txt
- backend/
- .git
- config.toml
- .env

Note: Active loading in init

Note:
Handles:
- key=value pairs
- Comments (#)
- Quoted values
- Empty lines

Note:
Thread-Safe Singleton
_initialized flag prevents
re-initialization race conditions

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