

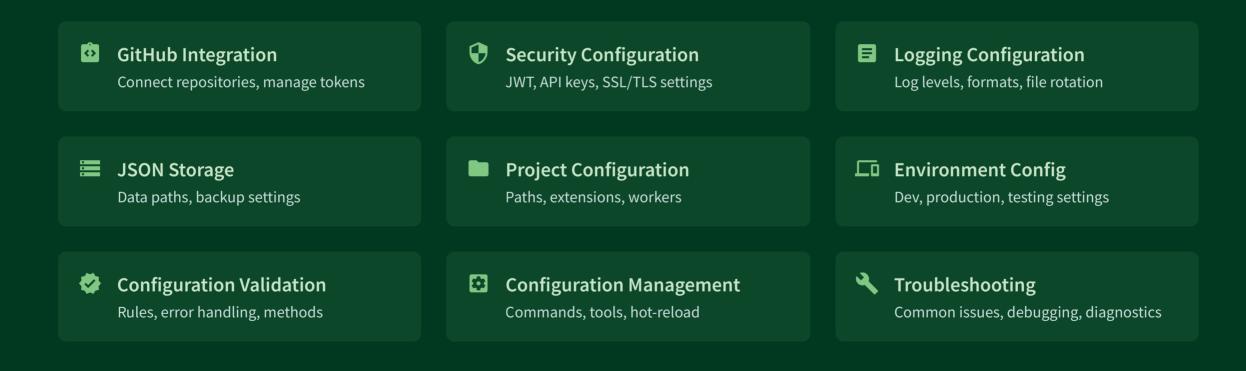
AutoProjectManagement Configuration Guide

Complete Setup and Configuration Instructions

Streamline Your Project Management

Configuration Guide Overview

AutoProjectManagement is a comprehensive project management system with flexible configuration options. This guide covers all essential configuration areas to help you set up and optimize your environment.



GitHub Integration

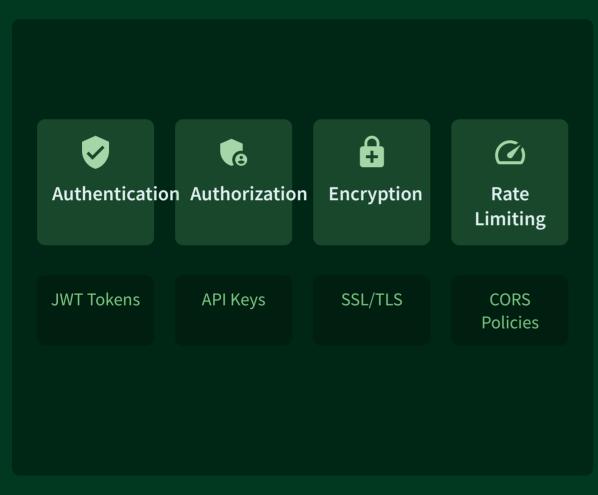
<> Environment Variables

Configuration Example

```
"github": {
 "username": "yourusername",
 "default_repo": "username/repository",
 "default_branch": "main",
 "auto_sync": true,
 "sync_interval": 300
```

Security Configuration

• Security Architecture

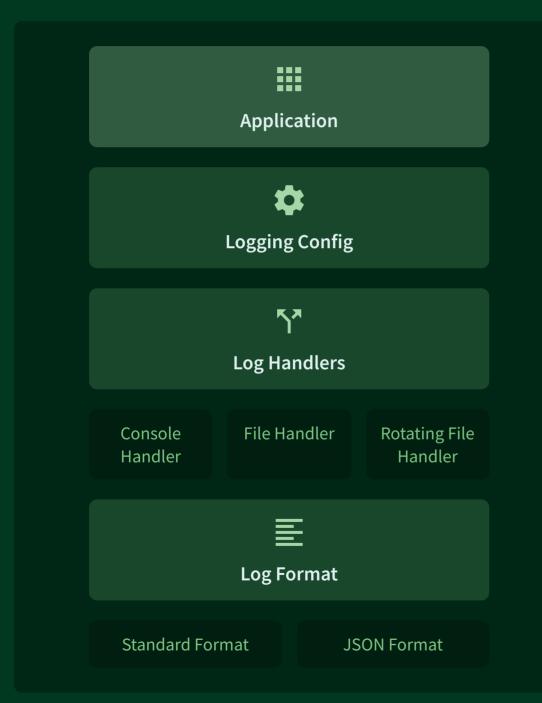


Configuration Options

Туре	Default
string	change-this
string	HS256
integer	60
string	X-API-Key
boolean	false
list	["*"]
string	
string	
	string string integer string boolean list string

Logging Configuration

E Logging Architecture

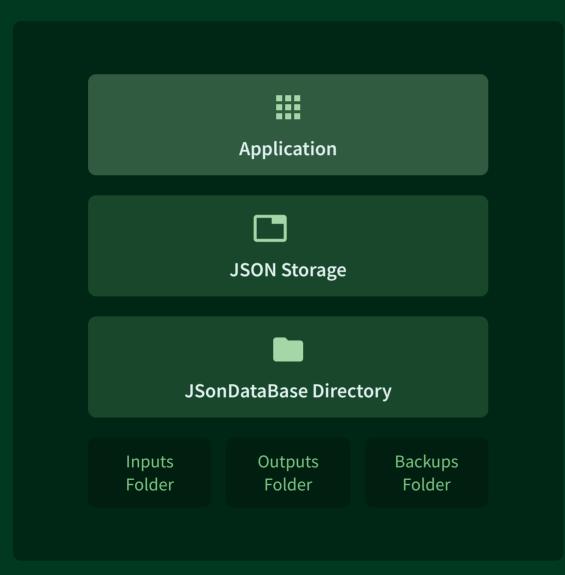


☵ Configuration Options

SettingTypeDefaultlevelstringINFOformatstringstandardfile_pathstring-max_file_sizestring10MBbackup_countinteger5json_formatbooleanfalseinclude_extrabooleantrue			
levelstringINFOformatstringstandardfile_pathstring-max_file_sizestring10MBbackup_countinteger5json_formatbooleanfalse			
formatstringstandardfile_pathstring-max_file_sizestring10MBbackup_countinteger5json_formatbooleanfalse	Setting	Туре	Default
file_pathstring-max_file_sizestring10MBbackup_countinteger5json_formatbooleanfalse	level	string	INFO
max_file_sizestring10MBbackup_countinteger5json_formatbooleanfalse	format	string	standard
backup_countinteger5json_formatbooleanfalse	file_path	string	
json_format boolean false	max_file_size	string	10MB
	backup_count	integer	5
include_extra boolean true	json_format	boolean	false
	include_extra	boolean	true

JSON Storage Configuration

Storage Architecture



Configuration Options

Setting	Туре	Default
type	string	json
json_path	string	autoproject.json
data_directory	string	JSonDataBase
inputs_path	string	JSonDataBase/Inputs
outputs_path	string	JSonDataBase/OutPuts
backup_enabled	boolean	true
backup_count	integer	5
max_file_size	integer	10485760
encoding	string	utf-8

Project Configuration

Configuration Structure



Configuration Options

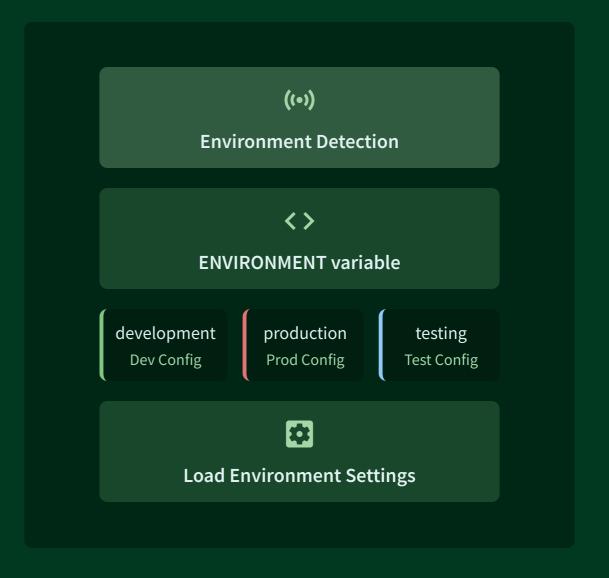
Setting	Туре	Default
base_path	string	current directory
data_path	string	JSonDataBase
output_path	string	JSonDataBase/OutPuts
backup_path	string	project_management/PM_Backups
max_file_size	integer	10485760
max_workers	integer	4
timeout_seconds	integer	300
enable_auto_commit	boolean	true
enable_risk_analysis	boolean	true
enable_github_integration	boolean	true

Environment-Specific Configurations

Configuration Matrix

Feature	Development	Production	Testing
API Debug	true	false	true
Storage Type	JSON files	JSON files	JSON files
Logging Level	DEBUG	INFO	DEBUG
GitHub Integration	true	true	false
SSL Required	false	true	false
Rate Limiting	relaxed	strict	disabled

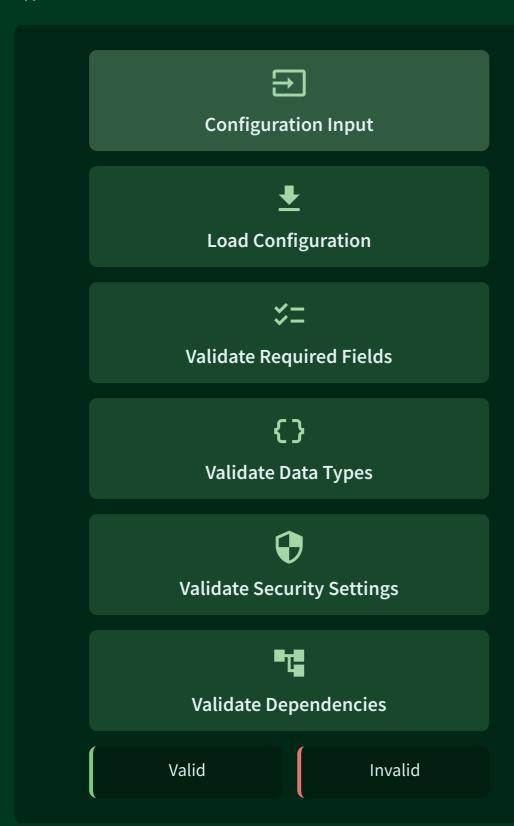
≠ Environment Detection



Automatic environment detection simplifies configuration management across deployment stages

Configuration Validation

Validation Process

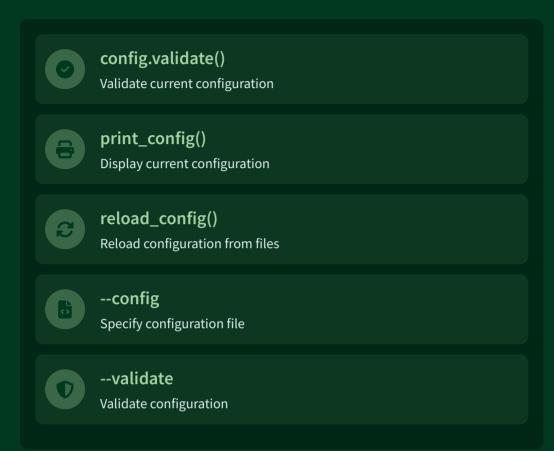


=¥ Validation Rules

Section Required Fields Validation Rules API host, port host must be valid IP/domain, port 1-65535 Database type must be 'json' GitHub token (if enabled) must be valid GitHub token format Security jwt_secret_key must not be default value Logging level must be valid log level Project base_path must be valid directory path	API host, port host must be valid IP/domain, port 1-65535 Database type must be 'json' GitHub token (if enabled) must be valid GitHub token format Security jwt_secret_key must not be default value Logging level must be valid log level	x validat	ion Rutes	
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Database type must be 'json' GitHub token (if enabled) must be valid GitHub token format Security jwt_secret_key must not be default value Logging level must be valid log level	Database type must be 'json' GitHub token (if enabled) must be valid GitHub token format Security jwt_secret_key must not be default value Logging level must be valid log level	Section	Required Fields	Validation Rules
GitHub token (if enabled) must be valid GitHub token format Security jwt_secret_key must not be default value Logging level must be valid log level	GitHub token (if enabled) must be valid GitHub token format Security jwt_secret_key must not be default value Logging level must be valid log level	API	host, port	
Security jwt_secret_key must not be default value Logging level must be valid log level	Security jwt_secret_key must not be default value Logging level must be valid log level	Database	type	must be 'json'
Logging level must be valid log level	Logging level must be valid log level	GitHub		
		Security	jwt_secret_key	must not be default value
Project base_path must be valid directory path	Project base_path must be valid directory path	Logging	level	must be valid log level
		Project	base_path	must be valid directory path

Configuration Management

> Management Commands



X Management Tools

Validate configuration python -m autoprojectmanagement.configuration validate --config config.json # Generate sample configuration python -m autoprojectmanagement.configuration generate --env development **A Configuration Script from autoprojectmanagement.configuration.manager import ConfigManager manager = ConfigManager() manager.load_config('config.json') manager.validate_config() manager.apply_config() **A Configuration CLI # Validate configuration python -m autoprojectmanagement.configuration python -m aut

C Hot-Reload Process



Backup & Restore

S Restore Configuration **B** Backup Configuration # Backup current # Restore from backup configuration cp config.backup.json config.json cp config.json config.backup.json # Validate after restore python -m # Backup with autoprojectmanagement.configuration timestamp validate cp config.json config.backup.\$(date +%Y%m%d_%H%M%S).json

Troubleshooting



Common Configuration Issues

Issue	Symptom	Solution
Invalid JSON	JSON parsing error	Use JSON validator
Missing required field	Validation error	Add missing configuration
Invalid port	Port already in use	Change port number
JSON file not found	File not found error	Check file paths
GitHub token invalid	401 Unauthorized	Regenerate GitHub token
SSL certificate error	SSL handshake failed	Check certificate paths

Debugging & Diagnostics

Enable Debug Logging Set logging level to DEBUG for detailed information "logging": { "level": "DEBUG"

Configuration Test Script

Validate configuration loading and settings

```
import json
from autoproject_configuration import Config
config = Config()
config.validate()
print(f"Storage: {config.database.type}")
```

Diagnostic Commands

- **Check configuration syntax** python -m json.tool config.json
- Validate configuration python -c "from autoproject_configuration import config; config.validate()"
- **Test JSON storage** python -c "from autoproject_configuration import config; print(f'Storage: {config.database.type}')"

Systematic debugging approach helps identify configuration issues quickly

Quick Reference

Configuration Template

```
{ "api": { "host": "127.0.0.1", "port": 8000,
  "debug": false, "cors_origins":
  ["http://localhost:3000"] }, "database": {
  "type": "json", "json_path": "autoproject.json",
  "backup_enabled": true }, "github": { "token":
  "your-github-token", "default_repo":
  "username/repository" }, "security": {
  "jwt_secret_key": "your-secret-key",
  "jwt_expiration_minutes": 60 }, "logging": {
  "level": "INFO", "file_path":
  "logs/autoproject.log" }, "project": {
  "base_path": "/path/to/project",
  "enable_auto_commit": true } }
```

Development

export
API_HOST=127.0.0.1
export API_PORT=8000
export
API_DEBUG=true
export DB_TYPE=json
export
GITHUB_TOKEN=yourtoken

Production

export
API_HOST=0.0.0.0
export API_PORT=8080
export
API_DEBUG=false
export DB_TYPE=json
export
SECURITY_SSL=true

■ Validation Checklist

- JSON syntax is valid
- All required fields are present
- JSON file paths are correct
- GitHub token has correct permissions
- Security settings are properly configured
- File paths exist and are accessible

Port numbers are available

Environment variables are set

Quick Validation Commands

Validate configuration
python -m autoprojectmanagement.configuration
validate

Check configuration syntax
python -m json.tool config.json

Test GitHub integration
python -c "from
autoprojectmanagement.services.github_integration
import GitHubIntegration; print('GitHub ready')"

Always validate your configuration before deploying to production