



MDREST4i FUNCTIONAL BREAKDOWN

iCORE

iCore is an RPG ILE development framework that enables RPG programmers to build REST APIs and Consumers quickly and easily using only RPG and SQL. Some key features include:

- **Built-in RPG ILE Functions**
 - Automated Parsing & Setting
 - HTTP Headers
 - Query String Parameters
 - Path parameters
 - Request Body
 - Response Body (Consumers)
 - JSON/XML Values
 - JSON/XML DOM Manipulation
 - JSON/XML Parsing Event Triggers
 - JSON/XML Document/Array/Object Builders
 - Bi-Directional UTF-8 to EBCDIC
 - JSON Escaping (Special characters)
 - Multi-lingual/CCSID/Code-Page Simultaneous Handling
 - Debugging switches
 - IFS File Handling – read/write/delete/update (CSV/TXT)
- **Analytics & Logging**
 - Low-Level Exception Handling for debugging
 - Request & Response Logging IFS/DB2
 - JSON/XML Payload Logging to IFS/DB2/REST API
 - Standardized JSON error responses
- **RPG ILE REST API & Consumer Commands to Auto-Generate:**
 - RPG ILE Constructs per REST/JSON construct
 - Parameter Validation & Processing Logic
 - Error Handling Logic JSON to RPG ILE Variable Assignment Logic
 - SQL Code for single table DB2 reads and writes
 - SQL Cursor to RPG ILE Variable Assignment Logic
 - RPG ILE Logic for Building Complete JSON Response
- **Security/Encryption**
 - SSL/TLS One-Way & Two-Way (Dual certificates)
 - OAuth/JWT Token Validation/Creation/Management
 - Local & Remote Secret/Token Processing
 - JWT Signature Validation
 - RPG ILE Logic for JWT Claim Payload processing

ACCELERATOR

Accelerator is a web UI and a set of IBM i REST APIs to accelerate generating, documenting, and securing REST APIs and Consumers on IBM i. It enables integration with SWAGGER and other API management tools such as OpenAPI Studio, API Connect, SWAGGER UI, SWAGGER Hub, and many others. Key features include:

- REST API for generating RPGLE REST API (GET/POST/PUT/PATCH/DELETE) from SWAGGER/OAS3 and JSON Payload
- REST API for generating RPGLE REST CONSUMER (GET/POST/PUT/PATCH/DELETE) from SWAGGER/OAS3 and JSON Payload
- Mapping for API fields to DB2 tables and fields
- Extract SWAGGER/OAS3 Specification from LXR REST API RPGLE Services
- Graphical SWAGGER/OAPI generator and editor (Web UI)
- Share, Import, Save, and Export SWAGGER /OAPI documents
- Multi-Environment API Developer Portal Document Generator
- Export SWAGGER to Atlassian Confluence
- JWT Token Generator and Manager