

Alya - Task #28729

Add JSON marshaling support for Optional type to handle null values in API responses

23/07/2025 12:59 AM - Sachin Divekar

Status:	Closed	Start date:	23/07/2025
Priority:	Normal	Due date:	
Assignee:	Sachin Divekar	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
Implements proper JSON marshaling so Optional fields serialize correctly i.e. explicit null values -> JSON null, present values -> actual values and absent fields -> omitted with struct tags.			

Associated revisions

Revision 7babc8fe - 23/07/2025 01:03 AM - Sachin Divekar

feat(wscutils): add MarshalJSON and IsZero support for Optional type #28729

Add JSON marshaling capabilities to the Optional type to properly handle null values and absent fields in API responses:

- Implement MarshalJSON to serialize Optional fields correctly:
 - Explicit null values serialize to JSON null
 - Present values serialize to their actual values
 - Absent fields serialize to zero values (Go limitation)
- Add IsZero method that returns true for absent fields, enabling omitzero tag support in Go 1.24+ to completely omit absent fields
- Add helper functions for creating Optional values:
 - NewOptional(value): creates Optional with a value
 - NewOptionalNull(): creates Optional with explicit null
 - NewOptionalAbsent(): creates Optional for absent field

With Go 1.24+, users can use omitzero tag to completely omit absent Optional fields from JSON output, providing cleaner API responses.

History

#1 - 23/07/2025 01:00 AM - Sachin Divekar

- % Done changed from 0 to 100
- Status changed from New to In Progress

Currently, Optional fields in API responses serialize as complex objects exposing internal structure (Value, Present, Null fields). This ticket implements proper JSON marshaling so Optional fields serialize correctly:

- Explicit null values -> JSON null
- Present values -> actual values
- Absent fields -> zero values (or omitted with Go 1.24+ omitzero tag)

#2 - 23/07/2025 01:00 AM - Sachin Divekar

- Status changed from In Progress to Closed