0.1 EBNF Grammatik für DMF

⟨*source_file*⟩	::=	⟨*dmf_declaration*⟩ ⟨*new_line*⟩ ⟨*model_declaration*⟩ ⟨*new_line*⟩ [⟨*import_block*⟩] ⟨*model_content*⟩
⟨*dmf_declaration*⟩	::=	'dmf' ⟨*version_number*⟩
⟨*model_declaration*⟩	::=	'model' ⟨*string_value*⟩ 'version' ⟨*version_number*⟩
⟨*import_block*⟩	::=	⟨*import_statement*⟩+
⟨*import_statement*⟩	::=	'import' ⟨*package_string*⟩ 'from' ⟨*string_value*⟩ ⟨*new_line*⟩
⟨*model_content*⟩	::=	⟨*package_content*⟩+

⟨*package_content*⟩ ::= [⟨*comment_block*⟩] ['expand'] ⟨*package_block*⟩ [⟨*override_block*⟩]
        | [⟨*comment_block*⟩] ['expand'] ⟨*struct_block*⟩ [⟨*override_block*⟩]
        | [⟨*comment_block*⟩] ['expand'] ⟨*enum_block*⟩ [⟨*override_block*⟩]
        | [⟨*comment_block*⟩] ['expand'] ⟨*entity_block*⟩ [⟨*override_block*⟩]
        | [⟨*comment_block*⟩] ['expand'] ⟨*interface_block*⟩ [⟨*override_block*⟩]

⟨*comment_block*⟩	::=	⟨*comment*⟩+
⟨*comment*⟩	::=	R'//.*\n'
⟨*override_block*⟩	::=	'override' '{' (⟨*java_override*⟩ | ⟨*typescript_override*⟩)* '}'

⟨*java_override*⟩ ::= 'java' '{' (⟨*java_annotaion*⟩ \| ⟨*java_extends*⟩ \| ⟨*java_implements*⟩
        \| ⟨*java_class*⟩ \| ⟨*java_name*⟩ \| ⟨*java_type*⟩ \| ⟨*java_doc*⟩)* '}'

⟨*java_annotation*⟩	::=	'annotations' ⟨*stringValue*⟩
⟨*java_doc*⟩	::=	'javaDoc' ⟨*stringValue*⟩
⟨*java_extends*⟩	::=	'extends' ⟨*stringValue*⟩
⟨*java_implements*⟩	::=	'implements' ⟨*stringValue*⟩
⟨*java_class*⟩	::=	'class' ⟨*stringValue*⟩

⟨*java_name*⟩	::=	'name' ⟨*stringValue*⟩

⟨*java_type*⟩	::=	'type' ⟨*stringValue*⟩

⟨*package_block*⟩	::=	'package' '{' ⟨*package_content*⟩* '}'

⟨*struct_block*⟩ ::= 'struct' ⟨*identifier*⟩ [⟨*extends_block*⟩] [⟨*implements_block*⟩] '{'
⟨*struct_content*⟩* '}'

⟨*extends_block*⟩ ::= 'extends' ⟨*reftype*⟩

⟨*implements_block*⟩ ::= 'implements' ⟨*reftype*⟩ (',' ⟨*reftype*⟩)+

⟨*struct_content*⟩ ::= [⟨*comment_block*⟩] ⟨*arg_block*⟩ [⟨*override_block*⟩]
    | [⟨*comment_block*⟩] ⟨*ref_block*⟩ [⟨*override_block*⟩]
    | [⟨*comment_block*⟩] ⟨*multi_block*⟩ [⟨*override_block*⟩]
    | [⟨*comment_block*⟩] ⟨*func_block*⟩ [⟨*override_block*⟩]

⟨*arg_block*⟩ ::= 'arg' ⟨*primitive_type*⟩ ⟨*identifier*⟩ ';'

⟨*ref_block*⟩ ::= 'ref' ⟨*reftype*⟩ ⟨*identifier*⟩ ';'

⟨*multi_block*⟩ ::= 'ref' ⟨*multi_name*⟩ '<' ⟨*primitive_type*⟩ [',' ⟨*primitive_type*⟩]
    '>' ⟨*identifier*⟩ ';'
    | 'ref' ⟨*multi_name*⟩ '<' ⟨*reftype*⟩ [',' ⟨*primitive_type*⟩] '>' ⟨*identifier*⟩
    ';'
    | 'ref' ⟨*multi_name*⟩ '<' ⟨*primitive_type*⟩ [',' ⟨*reftype*⟩] '>' ⟨*identifier*⟩
    ';'
    | 'ref' ⟨*multi_name*⟩ '<' ⟨*reftype*⟩ [',' ⟨*reftype*⟩] '>' ⟨*identifier*⟩
    ';'

⟨*func_block*⟩ ::= 'func' ⟨*reftype*⟩ ⟨*identifier*⟩ '(' [⟨*param_definition*⟩ (',' ⟨*param_definition*⟩)*]
    ')' ';'
    | 'func' ⟨*primitive_type*⟩ ⟨*identifier*⟩ '(' [⟨*param_definition*⟩ (','
    ⟨*param_definition*⟩)*] ')' ';'
    | 'func' 'void' ⟨*identifier*⟩ '(' [⟨*param_definition*⟩ (',' ⟨*param_definition*⟩)*]
    ')' ';'

⟨*param_definition*⟩ ::= ⟨*reftype*⟩ ⟨*identifier*⟩
    | ⟨*primitive_type*⟩ ⟨*identifier*⟩

⟨*enum_block*⟩	::=	'enum' ⟨*identifier*⟩ '{' ⟨*enum_content*⟩* '}'

⟨*enum_content*⟩   ::=   [⟨*comment_block*⟩] ⟨*arg_block*⟩ [⟨*override_block*⟩]
                 | [⟨*comment_block*⟩] ⟨*enum_constant*⟩ [⟨*override_block*⟩]

⟨*enum_constant*⟩   ::=   ⟨*identifier*⟩ '(' ⟨*enum_index*⟩ (',' ⟨*primitive_value*⟩)* ')' ';'

⟨*enum_index*⟩   ::=   '_' | ⟨*integerValue*⟩

⟨*entity_block*⟩   ::=   'entity' ⟨*identifier*⟩ [⟨*extends_block*⟩] [⟨*implements_block*⟩] '{'
                     ⟨*struct_content*⟩* ⟨*identifier_statement*⟩ '}'

⟨*identifier_statement*⟩   ::=   'identifier' '(' ⟨*identifier*⟩ (',' ⟨*identifier*⟩)* ')' ';'

⟨*interface_block*⟩   ::=   'interface' ⟨*identifier*⟩ [⟨*implements_block*⟩] '{' ⟨*interface_content*⟩*
                     '}'

⟨*interface_content*⟩   ::=   [⟨*comment_block*⟩] ⟨*func_block*⟩ [⟨*override_block*⟩]

0.2 Beispiel

⟨*statement*⟩   ::=   ⟨*ident*⟩ '=' ⟨*expr*⟩
                 | 'for' ⟨*ident*⟩ '=' ⟨*expr*⟩ 'to' ⟨*expr*⟩ 'do' ⟨*statement*⟩
                 | '{' ⟨*stat-list*⟩ '}'
                 | ⟨*empty*⟩

⟨*stat-list*⟩   ::=   ⟨*statement*⟩ ';' ⟨*stat-list*⟩ | ⟨*statement*⟩