Code Complexity Report

Source file: **./author/controller/AuthorController.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
AuthorController::AuthorController	1	3	13	1
AuthorController::create	1	3	19	1
AuthorController::findById	1	3	17	1
AuthorController::findAll	1	3	12	0
AuthorController::delete	1	3	16	1

Source file: **./author/controller/AuthorControllerDocs.java**
Source file: **./author/dto/AuthorDTO.java**
Source file: **./author/entity/Author.java**
Source file: **./author/exception/AuthorAlreadyExistsException.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
AuthorAlreadyExistsException::AuthorAlreadyExistsException	1	3	17	1

Source file: **./author/exception/AuthorNotFoundException.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
AuthorNotFoundException::AuthorNotFoundException	1	3	19	1

Source file: **./author/mapper/AuthorMapper.java**
Source file: **./author/repository/AuthorRepository.java**
Source file: **./author/service/AuthorService.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
AuthorService::AuthorService	1	3	13	1
AuthorService::create	1	6	44	1
AuthorService::findById	1	4	23	1
AuthorService::findAll	1	6	32	0
AuthorService::verifyIfExists	1	4	29	1
AuthorService::delete	1	4	19	1
AuthorService::verifyAndGetIfExists	1	5	32	1

Source file: **./books/controller/BookController.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
BookController::BookController	1	3	13	1
BookController::create	1	5	26	2
BookController::findByIdAndUser	1	5	24	2
BookController::findAllByUser	1	3	17	1
BookController::deleteByIdAndUser	1	5	23	2
BookController::updateByIdAndUser	1	6	33	3

Source file: **./books/controller/BookControllerDocs.java**

Source file: **./books/dto/BookRequestDTO.java**
Source file: **./books/dto/BookResponseDTO.java**
Source file: **./books/entity/Book.java**
Source file: **./books/exception/BookAlreadyExistsException.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
BookAlreadyExistsException::BookAlreadyExistsException	1	4	31	3

Source file: **./books/exception/BookNotFoundException.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
BookNotFoundException::BookNotFoundException	1	3	19	1

Source file: **./books/mapper/BookMapper.java**
Source file: **./books/repository/BookRepository.java**
Source file: **./books/service/BookService.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
BookService::create	1	12	108	2
BookService::findByIdAndUser	1	6	53	2
BookService::findAllByUser	1	7	49	1
BookService::verifyIfBookIsAlreadyRegistered	1	6	60	2
BookService::deleteByIdAndUser	1	5	47	2
BookService::verifyAndGetIfExists	1	4	32	2
BookService::updateByIdAndUser	1	14	136	3

Source file: **./config/AuditConfig.java**
Source file: **./config/JwtAuthenticationEntryPoint.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
JwtAuthenticationEntryPoint::commence	1	3	28	3

Source file: **./config/JwtRequestFilter.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
JwtRequestFilter::doFilterInternal	3	15	101	3
JwtRequestFilter::isTokenPresent	2	3	19	1
JwtRequestFilter::isUsernameInContext	2	3	27	1
JwtRequestFilter::addUsernameInContext	2	9	79	3

Source file: **./config/PasswordEncodingConfig.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
PasswordEncodingConfig::passwordEncoder	1	3	11	0

Source file: **./config/SwaggerConfig.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
SwaggerConfig::api	1	8	46	0

SwaggerConfig::buildApiInfo	1	8	43	0

Source file: **./config/WebSecurityConfig.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
WebSecurityConfig::configureGlobal	1	3	21	1
WebSecurityConfig::authenticationManagerBean	1	3	14	0
WebSecurityConfig::configure	1	13	121	1
WebSecurityConfig::configure	1	3	20	1

Source file: **./custominfoendpoint/InfoWebPointExtension.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
InfoWebPointExtension::info	1	7	65	0
InfoWebPointExtension::getStatus	1	3	15	1

Source file: **./entity/Auditable.java**

Source file: **./exception/ApiError.java**

Source file: **./exception/LibroleadExceptionHandler.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
LibroleadExceptionHandler::handleEntityNotFoundException	1	6	32	1
LibroleadExceptionHandler::handleEntityExistsException	1	6	32	1
LibroleadExceptionHandler::handleMethodArgumentNotValid	1	12	121	4
LibroleadExceptionHandler::handleHttpMessageNotReadable	1	10	37	4
LibroleadExceptionHandler::buildResponseEntity	1	10	79	3

Source file: **./publishers/controller/PublisherController.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
PublisherController::PublisherController	1	3	13	1
PublisherController::create	1	3	19	1
PublisherController::findById	1	3	17	1
PublisherController::findAll	1	3	12	0
PublisherController::delete	1	3	16	1

Source file: **./publishers/controller/PublisherControllerDocs.java**

Source file: **./publishers/dto/PublisherDTO.java**

Source file: **./publishers/entity/Publisher.java**

Source file: **./publishers/exception/PublisherAlreadyExistsException.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
PublisherAlreadyExistsException::PublisherAlreadyExistsException	1	3	24	2

Source file: **./publishers/exception/PublisherNotFoundException.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
PublisherNotFoundException::PublisherNotFoundException	1	3	19	1

Source file: **./publishers/mapper/PublisherMapper.java**

Source file: **./publishers/repository/PublisherRepository.java**

Source file: **./publishers/service/PublisherService.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
PublisherService::PublisherService	1	3	13	1
PublisherService::create	1	6	50	1
PublisherService::findById	1	5	34	1
PublisherService::findAll	1	6	32	0
PublisherService::delete	1	4	19	1
PublisherService::verifyIfExists	2	6	44	2
PublisherService::verifyAndGetIfExists	1	4	27	1

Source file: **./users/controller/UserController.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
UserController::UserController	1	4	22	2
UserController::create	1	3	19	1
UserController::delete	1	3	16	1
UserController::update	1	3	26	2
UserController::createAuthenticationToken	1	3	19	1

Source file: **./users/controller/UserControllerDocs.java**

Source file: **./users/dto/AuthenticatedUser.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
AuthenticatedUser::getAuthorities	1	3	19	0
AuthenticatedUser::getPassword	1	3	8	0
AuthenticatedUser::getUsername	1	3	8	0
AuthenticatedUser::isAccountNonExpired	1	3	8	0
AuthenticatedUser::isAccountNonLocked	1	3	8	0
AuthenticatedUser::isCredentialsNonExpired	1	3	8	0
AuthenticatedUser::isEnabled	1	3	8	0

Source file: **./users/dto/JwtRequest.java**

Source file: **./users/dto/JwtResponse.java**

Source file: **./users/dto/MessageDTO.java**

Source file: **./users/dto/UserDTO.java**

Source file: **./users/entity/User.java**

Source file: **./users/enums/Gender.java**

Source file: **./users/enums/Role.java**

Source file: **./users/exception/UserAlreadyExistsException.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
UserAlreadyExistsException::UserAlreadyExistsException	1	3	24	2

Source file: **./users/exception/UserNotFoundException.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
UserNotFoundException::UserNotFoundException	1	3	19	1

UserNotFoundException::UserNotFoundException   1   3   19   1

Source file: **./users/mapper/UserMapper.java**

Source file: **./users/repository/UserRepository.java**

Source file: **./users/service/AuthenticationService.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
AuthenticationService::createAuthenticationToken	1	9	63	1
AuthenticationService::authenticate	1	3	24	2
AuthenticationService::loadUserByUsername	1	9	65	1

Source file: **./users/service/JwtTokenManager.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
JwtTokenManager::JwtTokenManager	1	6	32	2
JwtTokenManager::generateToken	1	4	34	1
JwtTokenManager::doGenerateToken	1	7	75	2
JwtTokenManager::getUsernameFromToken	1	3	17	1
JwtTokenManager::getExpirationDateFromToken	1	3	17	1
JwtTokenManager::getClaimForToken	1	4	31	2
JwtTokenManager::getAllClaimsForToken	1	6	28	1
JwtTokenManager::validateToken	2	4	38	2
JwtTokenManager::isTokenExpired	1	4	26	1

Source file: **./users/service/UserService.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
UserService::UserService	1	4	22	2
UserService::create	1	7	64	1
UserService::update	1	9	82	2
UserService::delete	1	4	19	1
UserService::verifyAndGetIfExists	1	4	27	1
UserService::verifyIfExists	2	6	44	2
UserService::verifyAndGetUserIfExists	1	4	27	1

Source file: **./users/utils/MessageDTOUtils.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
MessageDTOUtils::creationMessage	1	3	15	1
MessageDTOUtils::updatedMessage	1	3	15	1
MessageDTOUtils::returnMessage	1	8	60	2

Source file: **./LibroleadApplication.java**

Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)
LibroleadApplication::main	1	3	20	1

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