## **Code Complexity Report**

Source file: ./email/mailgu	n go							
	9	T.O.C. (1000000)	Talson sount	Damamatan saunt (100)				
Function name	Cyclomatic complexity (15)							
	1	4	25	0				
WithMailgun	1	3	15	3				
	1	3	18	0				
WithSender	1	3	13	2				
Welcome	1	6	59	2				
buildEmail	2	6	30	2				
Source file: ./hash/hmac.go								
<b>Function name</b>	Cyclomatic complexity (15)	LOC (100000)	Token count	Parameter count (100)				
NewHMAC	1	6	34	1				
Hash	1	6	52	1				
Source file: ./context/conte	ext.go							
Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)				
WithUser	1	3	30	2				
User		8	50	1				
Source file: ./views/view.go		- U	30	_				
Function name	Cyclomatic complexity (15)	I OC (100000)	Token count	Parameter count (100)				
i unction name	1	3	21	0				
NewView		15	85					
	2			2				
ServeHTTP	1	3	31	2				
template	2	11	64	0				
layoutFiles	2	7	35	0				
addTemplatePath	2	5	27	1				
addTemplateExt	2	5	27	1				
Source file: ./views/data.go								
Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)				
SetAlert	2	14	72	1				
AlertError	1	6	29	1				
persistAlert	1	17	97	2				
clearAlert	1	16	82	1				
getAlert	3	15	69	1				
RedirectAlert	1	4	43	5				
Source file: ./rand/strings.	go							
Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)				
Bytes	2	8	49	1				
NBytes	2	7	43	1				
String	2	7	42	1				
RememberToken	1	3	16	0				
Source file: ./models/galle:		3	10	U				
Function name	Cyclomatic complexity (15)	IOC (100000)	Token court	Darameter count (100)				
ImagesSplitN	3	11	88 20	1				
NewGalleryService	1	5	29	1				
Create	2	9	46	1				
Update	2	9	46	1				
Delete	2	6	31	1				
userIDRequired	2	6	27	1				
	2	6	2 <i>1</i> 27	1				
titleRequired								
ByID	1	6	48	1				
ByUserID	2	8	59	1				
Create	1	3	26	1				
Update	1	3	26	1				
Delete	1	4	41	1				
Source file: ./models/services.go								
Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)				

	_							
error	1	4	19	0				
error	1	4	25	0				
error	1	4	21	0				
error	1	4	18	0				
NewServices	3	9	50	1				
Source file: ./models/users.go								
<b>Function name</b>	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)				
NewUserService	1	10	68	3				
Authenticate	4	16	96	2				
newUserValidator	1	8	85	3				
ByEmail	2	9	61	1				
ByRemember	2	9	61	1				
Create	2	19	86	1				
Update	2	17	78	1				
Delete	2	9	53	1				
bcryptPassword	3	13	76	1				
hmacRemember	2	7	41	1				
setRememberIfUnset	3	11	49	1				
rememberMinBytes	4	13	55	1				
rememberHashRequired	2	6	27	1				
error	2	6	21	0				
CITOI	1	1	2	0				
Source file: /models/image		-		<u> </u>				
Source file: ./models/images.go  Function name Cyclomatic complexity (15) LOC (1000000) Token count Parameter count (100)								
Path	1	6	35	0				
RelativePath		3	27					
	1	3	12	0				
NewImageService	1			0				
Create	4	16	88	3				
ByGalleryID	3	16	113	1				
Delete	1	3	26	1				
. D. (1	_	_						
imagePath	1	3	23	1				
mkImagePath	2	3 8	23 50	1 1				
mkImagePath Source file: ./models/error	2 <b>s.go</b>	8	50	1				
mkImagePath Source file: ./models/error Function name	2 s.go Cyclomatic complexity (15)	8 LOC (1000000)	50 <b>Token count</b>	1 Parameter count (100)				
mkImagePath Source file: ./models/error Function name Error	2 s.go Cyclomatic complexity (15) 1	8 LOC (1000000) 3	50 <b>Token count</b> 16	Parameter count (100)				
mkImagePath Source file: ./models/error Function name Error Public	2 s.go Cyclomatic complexity (15) 1	8 LOC (1000000) 3 6	50 <b>Token count</b> 16 61	Parameter count (100) 0 0				
mkImagePath Source file: ./models/error Function name Error Public Error	2 s.go Cyclomatic complexity (15)  1  1  1	8 LOC (1000000) 3	50 <b>Token count</b> 16	Parameter count (100)				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re	2 s.go Cyclomatic complexity (15)  1  1  1  2 sets.go	8 LOC (1000000) 3 6 3	50  Token count  16  61  16	1 Parameter count (100) 0 0 0				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_refunction name	2 s.go Cyclomatic complexity (15)  1  1  1  seets.go Cyclomatic complexity (15)	8 LOC (1000000) 3 6 3 LOC (1000000)	50  Token count 16 61 16  Token count	Parameter count (100)  0  0  0  Parameter count (100)				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_refunction name newPwResetValidator	s.go Cyclomatic complexity (15)  1  1  1  esets.go Cyclomatic complexity (15)  1	8 LOC (1000000) 3 6 3 LOC (1000000) 6	Token count 16 61 16 Token count 28	Parameter count (100)  0  0  0  Parameter count (100)  2				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken	s.go Cyclomatic complexity (15)  1  1  1  seets.go Cyclomatic complexity (15)  1  2	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8	50  Token count 16 61 16  Token count 28 59	1 Parameter count (100)  0 0 0 Parameter count (100) 2 1				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create	2 s.go Cyclomatic complexity (15)  1 1 1 esets.go Cyclomatic complexity (15)  1 2 2	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11	50  Token count 16 61 16  Token count 28 59 51	1 Parameter count (100)				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete	s.go Cyclomatic complexity (15)  1 1 1 2 Cyclomatic complexity (15)  1 2 2 2 2	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6	50  Token count 16 61 16  Token count 28 59 51 31	1 Parameter count (100) 0 0 0 Parameter count (100) 2 1 1 1				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken	s.go Cyclomatic complexity (15)  1 1 1 2 Cyclomatic complexity (15)  1 2 2 2 2 2	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8	50  Token count 16 61 16  Token count 28 59 51 31 55	1 Parameter count (100)  0 0 0 Parameter count (100)  2 1 1 1 1				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Create	2 s.go Cyclomatic complexity (15)  1 1 1 esets.go Cyclomatic complexity (15)  1 2 2 2 2 2 1	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3	50  Token count 16 61 16  Token count 28 59 51 31 55 26	1 Parameter count (100)  0 0 0 Parameter count (100) 2 1 1 1 1 1 1				
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mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete ByToken Create Delete requireUserID	2 s.go Cyclomatic complexity (15)  1 1 1 2 esets.go Cyclomatic complexity (15)  1 2 2 2 2 1 1 1 2	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27	Parameter count (100)  0 0 0 Parameter count (100)  2 1 1 1 1 1 1 1 1				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete EyToken Create Delete requireUserID setTokenIfUnset	2 s.go Cyclomatic complexity (15)  1 1 1 2 esets.go Cyclomatic complexity (15)  1 2 2 2 2 1 1 1 1 2 3	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27 49	Parameter count (100)  0 0 0 Parameter count (100) 2 1 1 1 1 1 1 1 1 1 1 1 1				
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mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete requireUserID setTokenIfUnset hmacToken Source file: ./controllers/gate	2 s.go Cyclomatic complexity (15)  1 1 1 2 Seets.go Cyclomatic complexity (15)  1 2 2 2 1 1 1 2 3 2 3 2 alleries.go	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4 6 11 7	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27 49 41	Parameter count (100)  0 0 0 Parameter count (100)  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete requireUserID setTokenIfUnset hmacToken Source file: ./controllers/ge Function name	2 s.go Cyclomatic complexity (15)  1 1 1 2 Seets.go Cyclomatic complexity (15)  1 2 2 2 1 1 1 2 3 2 3 2	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4 6 11 7	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27 49 41	Parameter count (100)  0 0 0 Parameter count (100)  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete requireUserID setTokenIfUnset hmacToken Source file: ./controllers/gate	2 s.go Cyclomatic complexity (15)  1 1 1 2 Seets.go Cyclomatic complexity (15)  1 2 2 2 1 1 1 2 3 2 3 2 alleries.go	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4 6 11 7 LOC (1000000) 11	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27 49 41  Token count 84	Parameter count (100)  0 0 0 Parameter count (100)  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete requireUserID setTokenIfUnset hmacToken Source file: ./controllers/ge Function name NewGalleries Index	s.go  Cyclomatic complexity (15)  1 1 1 seets.go Cyclomatic complexity (15)  1 2 2 2 2 1 1 1 2 3 2 alleries.go Cyclomatic complexity (15)	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4 6 11 7 LOC (1000000) 11 12	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27 49 41  Token count	Parameter count (100)  0 0 0 Parameter count (100) 2 1 1 1 1 1 1 1 1 Parameter count (100)				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete requireUserID setTokenIfUnset hmacToken Source file: ./controllers/ge Function name NewGalleries	S.go Cyclomatic complexity (15)  1 1 1 2 Seets.go Cyclomatic complexity (15)  1 2 2 2 1 1 1 2 3 2 Cyclomatic complexity (15) 1 2 1 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4 6 11 7 LOC (1000000) 11	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27 49 41  Token count 84	Parameter count (100)  0 0 0 Parameter count (100) 2 1 1 1 1 1 1 1 1 Parameter count (100) 3				
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mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete requireUserID setTokenIfUnset hmacToken Source file: ./controllers/ge Function name NewGalleries Index Show	2 s.go Cyclomatic complexity (15)  1 1 1 2 esets.go Cyclomatic complexity (15)  1 2 2 2 2 2 1 1 1 2 3 2 alleries.go Cyclomatic complexity (15)  1 2 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4 6 11 7 LOC (1000000) 11 12 9	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27 49 41  Token count 84 94 62	Parameter count (100)  0 0 0 Parameter count (100) 2 1 1 1 1 1 1 1 1 Parameter count (100) 3 2 2				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete requireUserID setTokenIfUnset hmacToken Source file: ./controllers/ge Function name NewGalleries Index Show Edit	2 s.go Cyclomatic complexity (15)  1 1 1 2 2 2 2 2 1 1 1 2 3 2 2 2 1 1 2 3 2 3	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4 6 11 7 LOC (1000000) 11 12 9 14	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27 49 41  Token count 84 94 62 97	Parameter count (100)  0 0 0 0 Parameter count (100) 2 1 1 1 1 1 1 1 1 Parameter count (100) 3 2 2 2 2				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete requireUserID setTokenIfUnset hmacToken Source file: ./controllers/ge Function name NewGalleries Index Show Edit Update	2 s.go Cyclomatic complexity (15)  1 1 1 2 esets.go Cyclomatic complexity (15)  1 2 2 2 2 1 1 1 1 2 3 2 2 3 2 alleries.go Cyclomatic complexity (15)  1 2 3 5	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4 6 11 7 LOC (1000000) 11 12 9 14 31	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27 49 41  Token count 84 94 62 97 197	Parameter count (100)  0 0 0 Parameter count (100)  2 1 1 1 1 1 1 1 1 Parameter count (100)  3 2 2 2 2 2 2				
mkImagePath Source file: ./models/error Function name Error Public Error Source file: ./models/pw_re Function name newPwResetValidator ByToken Create Delete ByToken Create Delete requireUserID setTokenIfUnset hmacToken Source file: ./controllers/ge Function name NewGalleries Index Show Edit Update Create	2 s.go Cyclomatic complexity (15)  1 1 1 2 esets.go Cyclomatic complexity (15)  1 2 2 2 2 2 1 1 1 1 2 3 2 alleries.go Cyclomatic complexity (15)  1 2 3 2 3 4	8 LOC (1000000) 3 6 3 LOC (1000000) 6 8 11 6 8 3 4 6 11 7 LOC (1000000) 11 12 9 14 31 26	50  Token count 16 61 16  Token count 28 59 51 31 55 26 41 27 49 41  Token count 84 94 62 97 197 203	Parameter count (100)  0 0 0 0 Parameter count (100) 2 1 1 1 1 1 1 1 1 1 Parameter count (100) 3 2 2 2 2 2 2 2 2				

Delete	4	20	136	2			
galleryByID	4	24	170	2			
Source file: ./controllers/users.go							
Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)			
NewUsers	1	8	53	2			
New	1	5	43	2			
Create	4	31	211	2			
SetErrorInLoginView	2	9	67	4			
getLoginFormFromRequest	1	5	32	1			
getAuthenticateError	2	10	31	1			
Login	4	19	134	2			
Logout	1	14	105	2			
signIn	4	20	102	2			
Source file: ./controllers/static.go							
Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)			
NewStatic	1	5	24	0			
Source file: ./controllers/he	elpers.go						
Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)			
parseForm	2	6	42	2			
parseURLParams	2	6	42	2			
parseValues	2	8	50	2			
Source file: ./middleware/r							
Function name	Cyclomatic complexity (15)	LOC (1000000)	Token count	Parameter count (100)			
Apply	1	3	27	1			
	5	22	130	0			
ApplyFn	1	3	25	1			
Apply	1	3	27	1			
	2	8	54	0			
ApplyFn	1	3	25	1			
Source file: ./config.go							
Function name	Cyclomatic complexity (15)			Parameter count (100)			
Dialect	1	3	13	0			
ConnectionInfo	2	6	69	0			
DefaultPostgresConfig	1	9	31	0			
IsProd	1	3	17	0			
DefaultConfig	1	9	33	0			
Source file: ./main.go							
Function name Cyclomatic complexity (15) LOC (1000000) Token count Parameter count (100)							
main	1	55	615	0			
must	2	5	18	1			

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