

## G-Link Test Cases

Comment						
Test #	Description	Input	Expected Output	Date Tested	Problem	Solution
1	Unit Test - Insert comment	Empty comment	Show error message			
2	Unit Test - Insert comment	String of length 1	success			
3	Unit Test - Insert comment	String of length 256	success			
4	Unit Test - Insert comment	String of length 266	Show error message			
5	Unit Test - Insert comment	Nonword characters only	success			
6	Unit Test - Insert comment	White spaces only	show error message			
7	Unit Test - Insert comment	Non-English characters	success			
8	Unit Test - Insert comment	' or '1' = '1	show ' or '1' = '1			
9	Unit Test - Search comment	Negative comment ID	Show error message			
10	Unit Test - Search comment	Comment ID = 1	success			
11	Unit Test - Search comment	Comment ID = 20	success			
12	Unit Test - Search comment	Nonexistent comment ID	Show error message			
13	Unit Test - Search comment	Non-integer characters	Show error message			
14	Unit Test - Modify comment	Change a word	success			
15	Unit Test - Modify comment	Change the whole message	success			
16	Unit Test - Modify comment	Add a white space	success			
17	Unit Test - Modify comment	Add a word	success			
18	Unit Test - Modify comment	Add to more than 256 characters	show error message			
19	Unit Test - Modify comment	Delete words	success			
20	Unit Test - Modify comment	Delete all words	Show error message			
21	Unit Test - Delete comment	Negative comment ID	show error message			

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22	Unit Test - Delete comment	Comment ID = 1	success			
23	Unit Test - Delete comment	Comment ID = 20	success			
24	Unit Test - Delete comment	Nonexistent comment ID	show error message			
25	Unit Test - Delete comment	Non-integer characters	show error message			
26	Unit Test - Modify items	Invalid comment ID	show error message			
27	Unit Test - Modify items	Valid comment ID	success			
28	Unit Test - Modify items	Valid postBy	success			
29	Unit Test - Modify items	Invalid postBy	Show error message			
30	Unit Test - Modify items	Valid time	success			
31	Unit Test - Modify items	Invalid time	Show error message			
32	Unit Test - Modify items	Valid responseld	success			
33	Unit Test - Modify items	Invalid responseld	Show error message			
<b>Article</b>						
Test #	Description	Input	Expected Output	Date	Problem	Solution
34	Unit Test - Insert article	Empty article	show error message			
35	Unit Test - Insert article	String of length 1	success			
36	Unit Test - Insert article	String of length 256	success			
37	Unit Test - Insert article	String of length 10000	success			
38	Unit Test - Insert article	String of length 65535	success			
39	Unit Test - Insert article	String of length 65536	show error message			
40	Unit Test - Insert article	Nonword characters only	success			
41	Unit Test - Insert article	White spaces only	show error message			
42	Unit Test - Insert article	Non-English characters	success			

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43	Unit Test - Insert article	' or '1' = '1	show ' or '1' = '1			
44	Unit Test - Search article	Valid article ID	success			
45	Unit Test - Search article	Negative article ID	show error message			
46	Unit Test - Search article	Nonexistent comment ID	show error message			
47	Unit Test - Search article	Non-integer characters	show error message			
48	Unit Test - Modify article	Change a word	success			
49	Unit Test - Modify article	Change the whole message	success			
50	Unit Test - Modify article	Add a white space	success			
51	Unit Test - Modify article	Add words to 65536 characters	success			
52	Unit Test - Modify article	Add to more than 65536 characters	show error message			
53	Unit Test - Modify article	Delete words	success			
54	Unit Test - Modify article	Delete all words	Show error message			
55	Unit Test - Delete article	Negative article ID	show error message			
56	Unit Test - Delete article	Valid article ID = 1	success			
57	Unit Test - Delete article	Nonexistent article ID	show error message			
58	Unit Test - Delete article	Non-integer characters	show error message			
59	Unit Test - Modify items	Invalid article ID	show error message			
60	Unit Test - Modify items	Valid article ID	success			
61	Unit Test - Modify items	Valid postBy	success			
62	Unit Test - Modify items	Invalid postBy	Show error message			
63	Unit Test - Modify items	Valid time	success			
64	Unit Test - Modify items	Invalid time	Show error message			

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65	Unit Test - Modify items	Valid commentId	success			
66	Unit Test - Modify items	Invalid commentId	Show error message			
67	Unit Test - Modify items	Valid viewCount	success			
68	Unit Test - Modify items	Invalid viewCount	show error message			
<b>PlayableGame</b>						
Test #	Description	Input	Expected Output	Date	Problem	Solution
69	Unit Test - Create	jar file	success			
70	Unit Test - Create PG	non-jar file	show error message			
71	Unit Test - Create	empty jar file	success			
72	Unit Test - Create	Non-working jar file	success			
73	Unit Test - Search	Valid playableGameId	success			
74	Unit Test - Search PG	Negative playableGameId	show error message			
75	Unit Test - Search PG	Non-integer characters	show error message			
76	Unit Test - Search PG	Non-existent playableGameId	show error message			
77	Unit Test - Modify gameId	Valid playableGameId	success			
78	Unit Test - Modify gameId	Invalid playableGameId	show error message			
79	Unit Test - Modify players	Valid players	success			
80	Unit Test - Modify players	Empty players	show error message			
81	Unit Test – Add players	Invalid players	show error message			
82	Unit Test – upload	valid highscores	success			
83	Unit Test – upload HS	non-integer highscores	show error message			
84	Unit Test – upload HS	empty highscores	show error message			
85	Unit Test – add	Valid pictureId	success			
86	Unit Test – add photo	Invalid pictureId	show error message			
87	Unit Test – Delete	Valid playableGameId	success			
88	Unit Test – Delete PG	Invalid playableGameId	show error message			
<b>Signup</b>						

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Test #	Description	Input	Expected Output	Date	Problem	Solution
89	Unit Test - Sign up	same \$pw and \$pw2	success			
90	Unit Test - Sign up	\$pw different from \$pw2	show error message			
91	Unit Test - Sign up	empty \$pw	show error message			
92	Unit Test - Sign up	empty \$pw2	show error message			
93	Unit Test - Sign up	empty \$id	show error message			
94	Unit Test - Sign up	empty \$email	show error message			
95	Unit Test - Sign up	\$pw, \$pw2, \$id, and \$email all not empty	success			
96	Unit Test - Sign up	set \$query = SELECT * from users WHERE	success			
97	Unit Test - Sign up	set \$query = SELECT * from users WHERE	show error message			
98	Unit Test - Sign up	set \$db = mysql_connect('local host', 'djc42',	success			
99	Unit Test - Sign up	set \$db = mysql_connect('local host', 'djc42', 'Chang')	error			
100	Unit Test - Sign up	set \$db = mysql_connect('local host', 'djc',	error			
101	Unit Test - Sign up	set \$db = null	error			
102	Unit Test - Sign up	set \$row = 1	show error message			
103	Unit Test - Sign up	set \$row = 0	success			
104	Unit Test - Sign up	set \$row > 0	show error message			
105	Unit Test - Sign up	set \$query to null	show error message			
106	Unit Test - Sign up	INTO users(userID,password,email) VALUES('\$id',MD5('\$pw'),'\$email')"	success			
107	Unit Test - Sign up	set action to "register"	show sign up page			
108	Unit Test - Sign up	set action to "login"	show log in page			

Video

### G-Link Test Cases

Test #	Description	Input	Expected Output	Date	Problem	Solution
109	Unit test – Upload Video	Standard resolution video	No error			
110	Unit test – Upload Video	High definition video	No error			
111	Unit test – Upload Video	Video over 64 MB	Error message - Invalid file			
112	Unit test – Upload Video	Non-supported video file type	Error message - Invalid file			
113	Unit test – Upload Video	Corrupt video file	Error message - Invalid file			
114	Unit test – Play	View video on	No error			
115	Unit test – Play	View video on Firefox	No error			
116	Unit test – Play	View video on Safari	No error			
117	Unit test – View	View video on	No error			
118	Unit test – View	View video on	No error			
119	Unit test – View	View video on Linux	No error			
120	Unit test – Delete Video	Delete video	Video is deleted from database			
<b>Picture</b>						
Test #	Description	Input	Expected Output	Date	Problem	Solution
121	Unit test – Upload Picture	Standard resolution picture	No error			
122	Unit test – Upload Picture	Corrupt picture file	Error message - Invalid file			
123	Unit test – Upload Picture	High resolution picture	No error			
124	Unit test – Display Picture	View picture on Chrome	No error			
125	Unit test – Display Picture	View picture on Firefox	No error			
126	Unit test – Display Picture	View picture on Safari	No error			
127	Unit test – Display Picture	View picture on Windows	No error			
128	Unit test – Display Picture	View picture on Macintosh	No error			
129	Unit test – Display Picture	View picture on Linux	No error			
130	Unit test – Delete Picture	Delete picture	Picture is deleted from database			
131	Unit test – Process Picture	Picture over 4 MB	Error message - Invalid file			

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132	Unit test – Process Picture	Non-supported picture file type	Error message - Invalid file			
User						
Test #	Description	Input	Expected Output	Date	Problem	Solution
133	Unit test -Create	Name with foreign	No error			
134	Unit test -Create User	Name with greater than 32 characters	Error message - Invalid input			
135	Unit test -Create User	Name with fewer than 32 characters	No error			
136	Unit test -Create User	Name with special characters (!,@,#	Error message - Invalid input			
137	Unit test – Password setup	Password with only alphanumeric	No error			
138	Unit test – Password setup	Password with special characters	No error			
139	Unit test – Gender input	Set gender to male	No error			
140	Unit test – Gender input	Set gender to female	No error			
141	Unit test – Modify prefs	Set preferences	No error			
142	Unit test – Add	Empty about section	No error			
143	Unit test – Add info	About section < 512 characters	No error			
144	Unit test – Add info	About section > 512 characters	Error message - Invalid input			
145	Unit test – Display Friend	View friends' pages	No error			
146	Unit test – Modify Games	Favorite games	No error			
147	Unit test – Modify Games	RequestGames() function	No error			
148	Unit test – Modify Games	RequestFriends() function	No error			
149	Unit test – Edit	Modify name	No error			
150	Unit test – Edit	Modify password	No error			
151	Unit test – Add	Add friend	No error			
152	Unit test – Add Friend	Add friend that doesn't exist	Error message - Invalid input			
153	Unit test – Modify Friends	Delete friend	No error			
154	Unit test – Modify Friends	Add more than 2048 friends	Error message - Friend limit reached			

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155	Unit test – Edit email	Email address greater than 32 characters	Error message - Invalid input			
156	Unit test – Modify Games	Modify favorite games	No error			
157	Unit test – Modify prefs	Modify preferences	No error			
158	Unit test - User	View a user page of someone who is not a friend	Error message - Invalid permission			
GamePage						
Test #	Description	Input	Expected Output	Date	Problem	Solution
159	Unit Test – Create GP	Name string size < 32	GP created			
160	Unit Test – Create GP	String containing characters	Error – invalid name			
170	Unit Test – Create GP	String of existent GP	Error – already exists			
160	Unit Test – Create GP	empty string	Error – invalid name			
161	Unit Test – Modify PG	New valid name	No error			
171	Unit Test – Modify PG	existent valid name string	Error – already exists			
161	Unit Test – Modify PG	Empty name string	Error – invalid name			
162	Unit Test – Modify Genre	edit genre – valid string	No error			
172	Unit Test – Modify Genre	edit genre – non-existent genre	Error – genre not found			
162	Unit Test – Modify Console	edit console – valid console	No error			
163	Unit Test – Modify Console	edit console – non-existent console	Error – console not found			
173	Unit Test – Modify Info	string less than length 1024	No error			
163	Unit Test – Modify Info	String containing image file	Error – cannot upload file			
164	Unit Test – Modify Info	empty string	No error			
174	Unit Test – Modify Info	NULL string	Error – please input text			
164	Unit Test – Modify Info	String of length >1024	Error – exceeds max size			
165	Unit Test – Delete GP	existent valid GP ID	return GP; delete from DB			
175	Unit Test – Delete	Non-valid GP ID	Error: invalid ID			



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165	Unit Test – Delete GP	Non-existent GP ID	Error: GP not found			
166	Unit Test – Add Comment	Valid comment link	modify GP comments			
176	Unit Test – Add Comment	String of length > 512	Error: string too long			
166	Unit Test – Add Comment	Comment containing photo	Error: cannot contain photo			
167	Unit Test – Retrieve	Valid comment ID	display comment			
177	Unit Test – Retrieve	Invalid comment ID	Error: comment not found			
167	Unit Test – Retrieve	Non-existent valid comment ID	Error: invalid ID			
168	Unit Test – add	Valid pictureId	success			
178	Unit Test – add photo	Invalid pictureId	show error message			
168	Unit Test – add	valid video ID	No error			
169	Unit Test – add	invalid video ID	Error – invalid ID			
179	Unit Test – add video	Non-existent valid ID	Error: video not found			
169	Unit Test – remove video	valid video ID	No error			
170	Unit Test – remove video	invalid video ID	Error – invalid ID			
180	Unit Test – remove video	Non-existent valid ID	Error: video not found			
170	Unit Test – remove photo	valid photo ID	No error			
171	Unit Test – remove photo	invalid photo ID	Error – invalid ID			
181	Unit Test – remove photo	Non-existent valid ID	Error: photo not found			
<b>Profile</b>						
Test #	Description	Input	Expected Output	Date	Problem	Solution
182	Unit test – Display Friend	valid, existent userID	display profile			
183	Unit test – Display Friend	invalid userID	Error – invalid ID			
184	Unit test – Display Friend	valid, non-existent userID	Error – user not found			
185	Unit Test – add	valid video ID	No error			
186	Unit Test – add	invalid video ID	Error – invalid ID			

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187	Unit Test – add video	Non-existent valid ID	Error: video not found			
188	Unit Test – remove video	valid video ID	No error			
189	Unit Test – remove video	invalid video ID	Error – invalid ID			
190	Unit Test – remove video	Non-existent valid ID	Error: video not found			
191	Unit Test – remove photo	valid photo ID	No error			
192	Unit Test – remove photo	invalid photo ID	Error – invalid ID			
193	Unit Test – Add Comment	Valid comment link	modify GP comments			
194	Unit Test – Add Comment	String of length > 512	Error - string too long			
195	Unit Test – Add Comment	Comment containing photo	Error - cannot contain photo			
196	Unit Test – View Photos	established photo array	return photos			
197	Unit Test – View Photos	Non-existent photo ID	Error – cannot find photo			
198	Unit Test – add photo	string photo filepath	transfer to Picture Module			
199	Unit Test – add photo	empty string	Error – please input path			
200	Unit Test – add photo	string filepath containing characters other than “:”, “/”, “,”	Error – invalid filepath			
201	Unit Test – Retrieve	Valid comment ID	display comment			
202	Unit Test – Retrieve	Invalid comment ID	Error - comment not found			
203	Unit Test – Retrieve	Non-existent valid comment ID	Error - invalid ID			
204	Unit Test – Add platform	valid, existent platform ID	No error			
205	Unit Test – Add platform	invalid platform ID	Error - invalid ID			
206	Unit Test – Add platform	valid, non-existent platform ID	Error – platform not found			
207	Unit Test – Play game	valid, existent	transfer to PG			
208	Unit Test – Play game	invalid or non-existent gameID	Error: invalid game			

### G-Link Test Cases

209	Unit Test – View Recommendation	gameID	transfer to R-G			
210	Unit Test – View Recommendation	userID	transfer to R-F			
211	Unit Test – View Recommendation	articleID	transfer to R-A			