Group 8

Software Test Report

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1 OVERVIEW

This test report is a test report for the Gamehub website project. The purpose of this test report is to summarize the tests during the test phase and analyze the test results, and describe whether the system meets the requirements. Expected reference personnel include users, the stakeholders and the developers of the system and the Supervisor of Software Development Workshop II's Group Project.

TEST ENVIRONMENT

Related software version:

- Bootstrap 4.1
- Python 3.7
- Flask 1.0
- MySQL 10.1
- asn1crypto 0.24.0
- blinker 1.4
- cffi 1.12.3
- Click 7.0
- Cryptography 2.6.1
- Faker 1.0.5
- Flask 1.0.2
- Flask-Login 0.4.1
- Flask-Mail 0.9.1
- Flask-SQLAlchemy 2.4.0
- Itsdangerous 1.1.0
- Jinja2 2.10.1
- Lxml 4.3.3
- MarkupSafe 1.1.1
- Pycparser 2.19
- PyMySQL 0.9.3
- python-dateutil 2.8.0
- python-docx 0.8.10
- python-dotenv 0.10.1
- six 1.12.0
- SQLAlchemy 1.3.3
- text-unidecode 1.2
- Werkzeug 0.15.2

Testing on latest stable version of Google Chrome browser (66.0.3359.117 (64-bit) or later), no longer support IE 8 / IE 9.

Using HTML5 Standard.

Using UTF-8 encoding Standard.

2 TEST PROCEDURE

- Functional Test
- Hyperlink Test
- User permission validation Test
- Exception Handling Test

3 TEST DETAIL

3.1 METHODS TEST

index	Method name	Results	Remark
1	send_async_email	PASS	
2	Send_email	PASS	
3	validate_email	PASS	RegistrationForm
4	validate_email	PASS	ChangeEmailForm
5	before_request	PASS	
6	unconfirmed	PASS	
7	login	PASS	
8	logout	PASS	
9	register	PASS	
10	confirm	PASS	
11	resend_confirmation	PASS	
12	password_reset_request	PASS	
13	password_reset	PASS	
14	validate_rating	PASS	
15	personal_center	PASS	
16	allowed_file	PASS	
17	edit_profile	PASS	
18	change_password	PASS	
19	all_orders_user	PASS	
20	refund	PASS	
21	all_refunds_user	PASS	
22	order_detail	PASS	
23	all_games_user	PASS	
24	admin_center	PASS	
25	all_orders_admin	PASS	
26	edit_order	PASS	
27	edit_order_by_id	PASS	
28	all_refunds_admin	PASS	
29	refund_process	PASS	
30	process_refund_by_id	PASS	

31	all_users_admin	PASS	
32	user_management	PASS	
33	edit_user	PASS	
34	edit_user_by_id	PASS	
35	all_games_admin	PASS	
36	add_new_game	PASS	
37	game_management	PASS	
38	edit_game	PASS	
39	edit_game_by_id	PASS	
40	enable_game	PASS	
41	disable_game	PASS	
42	recommend_add	PASS	
43	recommend_remove	PASS	
44	editor_pick_add	PASS	
45	editor_pick_remove	PASS	
46	recommendation_carousel_management	PASS	
47	editor_pick_management	PASS	
48	change_game_cover	PASS	
49	add_game_image	PASS	
50	remove_game_image	PASS	
51	manage_photos	PASS	
52	page_not_found	PASS	
53	forbidden	PASS	
54	index	PASS	
55	game_list	PASS	
56	game_detail	PASS	
57	rating	PASS	
58	search	PASS	
59	cart_detail	PASS	
60	cart_add	PASS	
61	cart_remove	PASS	
62	cart_checkoutwishlist_detail	PASS	
63	wishlist_add	PASS	
64	wishlist_remove	PASS	
65	wishlist_checkout	PASS	
66	after_cart_checkout	PASS	
67	page_not_found	PASS	
68	forbidden	PASS	
69	create_app	PASS	
70	admin_required	PASS	
71	verify_password	PASS	
72	generate_confirmation_token	PASS	
73	confirm	PASS	
74	generate_reset_token	PASS	
75	password	PASS	
76	reset_password	PASS	
77	generate_email_change_token	PASS	
78	change_email	PASS	
79	is_administrator	PASS	

80	load_user	PASS	
81	rating	PASS	
82	get_star_num	PASS	
83	make_shell_context	PASS	
84	fake_genres	PASS	
85	insert_100_games	PASS	
86	fake_games	PASS	
87	insert_test_users	PASS	
88	fake_users	PASS	
89	fake_comments	PASS	
90	fake_ratings	PASS	
91	fake_orders	PASS	
92	fake_refunds	PASS	
93	fake_test	PASS	
94	fake_all	PASS	
95	init_db	PASS	

3.2 FUNCTIONAL TEST

Log-in:

Step	Behavior	Expected Outcome	Results
1	Input the correct username and password	N/A	N/A
2	Click the login button	Log in successfully and enter the homepage	PASS

Log-in with wrong input:

Step	Behavior	Expected Outcome	Results
1	Input the username and password without register or error	N/A	N/A
2	Click the login button	Show the error message	PASS

Register

Step	Behavior	Expected Outcome	Results
1	Input the name, email, password and repeat password	N/A	N/A
2	Click the register button	Show the information about e-mail verification	PASS

Register with wrong format

Step	Behavior	Expected Outcome	Results

Step	Behavior	Expected Outcome	Results
1	Input the name, email, password and repeat password with wrong format	N/A	N/A
2	Click the register button	Show warn message and register fail	PASS

Change password

Step	Behavior	Expected Outcome	Results
1	Input the e-mail address and new password	N/A	N/A
2	Click the Reset password button	Reset successfully	PASS

User avatar:

Step	Behavior	Expected Outcome	Results
1	Click the user avatar	See the personal information button and exit login button	PASS
2	Click the profile button	Visit the personal information	PASS
3	Click the log out button	Log out the current account and visit dashboard page	PASS

Personal center:

Step	Behavior	Expected Outcome	Results
1	Click the My game	See all the game the user has owned	PASS
2	Click the All orders	See all the orders information	PASS
3	Click the All refunds	See all the refunds information	PASS

Admin page:

Step	Behavior	Expected Outcome	Results
1	Click the dashboard	See all the data of the website	PASS
2	Click the All orders	See all the orders information	PASS
3	Click the All refunds	See all the refunds information	PASS
4	Click the All users	See all the account information	PASS
5	Click the All Games	See all the games information	PASS
6	Click the Add New Game	See the page to add new game	PASS
7	Click the Management button	Edit the Game information and remove the record	PASS

Cart

Step	Behavior	Expected Outcome	Results
1	Add the new game to the cart	Add the new game to the user's cart	PASS
2	Add the remove button in the cart	Remove the game you have already add in the cart	PASS
3	Click the cheque out button	Purchase successfully and show the hint information	PASS

Wish list

Step	Behavior	Expected Outcome	Results
1	Add the new game to the wish list	Add the new game to the user's wish list	PASS
2	Add the remove button in the wish list	Remove the game you have already add in the wish list	PASS

Search

Step	Behavior	Expected Outcome	Results
1	Input the relevant keyword about the game in the search	N/A	N/A
2	Click the search icon	Skip to the game page and show the games with the highest relevant	PASS

Game page:

Step	Behavior	Expected Outcome	Results
1	Click the game image or game name	Skip to the specific game page	PASS
2	Click the type of game button like ACT, FPS	Show the different type of the games	PASS

Specific game page:

Step	Behavior	Expected Outcome	Results
1	Park the mouse over the star	The star which behind your mouse fill with background color	PASS
2	Click the rating button	Refresh the interface and rate the game	PASS
3	Comment the game in comment window	N/A	N/A
4	Click the submit comment	Show the comment in the comment area	PASS

3.3 HYPERLINK TEST

Login Page			
#	Link/Button Name	Expected URL/Expected Function	Results
1	Login	/auth/login/	PASS
2	Go to Gamehub without login	/	PASS
3	Create account	/auth/register	PASS
Register Page			
#	Link/Button Name	Expected URL/Expected Function	Results
1	Create account	/auth/register/	PASS
2	Already have account?Login	/auth/login/	PASS
Homepage			
#	Link/Button Name	Expected URL/Expected Function	Results
1	Gamehub logo	/	PASS
2	Personal center icon	/pensonal_center	PASS
3	Wish list icon	/wishlist_detail	PASS
4	Cart icon	/cart_detail	PASS
5	Search bar	/search?keyword=/	PASS
6	Next game	Slide to next game	PASS
7	Game name	/game_detail	PASS
8	FPS	/game_list?genre_name=FPS	PASS
9	RPG	/game_list?genre_name=RPG	PASS
10	RTS	/game_list?genre_name=RTS	PASS
11	Home	/	PASS
12	Shop	/game_list	PASS
13	Sign in	/login	PASS
14	View Cart	/cart_detail	PASS
15	My Wishlist	/wishlist_detail	PASS
16	Track My Order	/all_orders_user	PASS
	Up arrow icon	Move to the top	PASS
Game Page			
#	Link/Button Name	Expected URL/Expected Function	Results
1	Give a rating	Dropdown panel	PASS
2	Rating!	/game_detail/	PASS
3	Wish list icon	/wishlist_detail	PASS
4	Cart icon	/cart_detail	PASS
5	BUY IT NOW!	/cart_detail	PASS
6	Submit Comment	Add a comment	PASS
List Page			
#	Link/Button Name	Expected URL/Expected Function	Results
1	Types of games	/game_list?genre_name=/	PASS
2	Game name	/game_detail	PASS
3	Wish list icon	/wishlist_detail	PASS
4	Cart icon	/cart_detail	PASS

#	Link/Button Name	Expected URL/Expected Function	Results
5	Next page icon	Next page of games	PASS
6	Page number	Corresponding page	PASS
Wishlist Page			
#	Link/Button Name	Expected URL/Expected Function	Results
1	Remove	Remove the game	PASS
2	Add them into cart	/cart_detail	PASS
Cart Page			
#	Link/Button Name	Expected URL/Expected Function	Results
1	Remove	Remove the game	PASS
2	Cheque out	/after_checkout	PASS
Personal center Page			
#	Link/Button Name	Expected URL/Expected Function	Results
1	My game	Dropdown panel	PASS
2	User records	Dropdown panel	PASS
3	Games	Dropdown panel	PASS
4	User head portrait	Dropdown panel	PASS
5	Profile	/edit_profile	PASS
6	Change password	/change_password	PASS
7	All Orders	/all_orders_user	PASS
8	All Refunds	/all_refunds_user	PASS
9	View All Games	/all_games_user	PASS
10	Change password	/change_password	PASS
11	GameHub	/	PASS
12	Customer Center	/personal_center	PASS
13	Logout	Pop-up window	PASS
Admin center Page			
#	Link/Button Name	Expected URL/Expected Function	Results
1	My game	Dropdown panel	PASS
2	User records	Dropdown panel	PASS
3	Games	Dropdown panel	PASS
4	User head portrait	Dropdown panel	PASS
5	Profile	/edit_profile	PASS
6	Change password	/change_password	PASS
7	Admin center	/admin_center	PASS
8	System records	Dropdown panel	PASS
9	Users	Dropdown panel	PASS
10	Index Page Management	Dropdown panel	PASS
11	All user	/all_users_admin	PASS
12	All games	/all_games_admin	PASS
13	Add new game	/add_new_game	PASS
14	Recommendation carousel	/recommedndation_carousel_management	PASS
15	Editor's_pick	/editor_pick_management	PASS
16	GameHub	/	PASS
17	Customer Center	/personal_center	PASS
18	Logout	Pop-up window	PASS

3.4 USER PERMISSION VALIDATION TEST

AnonymousUser			
Number	Function	Permission	Result
1	Login	Allow	PASS
2	Registration	Allow	PASS
3	PasswordResetRequest	Not Allow	PASS
4	PasswordReset	Not Allow	PASS
5	ChangeEmail	Not Allow	PASS
6	EditGame	Not Allow	PASS
7	AddNewGame	Not Allow	PASS
8	EditUser	Not Allow	PASS
9	EditProfile	Not Allow	PASS
10	ChangePassword	Not Allow	PASS
11	RefundProcess	Not Allow	PASS
12	UploadFile	Not Allow	PASS
13	EditOrder	Not Allow	PASS
14	ViewOrder	Not Allow	PASS
15	Comment	Not Allow	PASS
16	ViewShop	Allow	PASS

Administrator			
Number	Function	Permission	Result
1	Login	Allow	PASS
2	Registration	Allow	PASS
3	PasswordResetRequest	Allow	PASS
4	PasswordReset	Allow	PASS
5	ChangeEmail	Allow	PASS
6	EditGame	Allow	PASS
7	AddNewGame	Allow	PASS
8	EditUser	Allow	PASS
9	EditProfile	Allow	PASS
10	ChangePassword	Allow	PASS
11	RefundProcess	Allow	PASS
12	UploadFile	Allow	PASS
13	EditOrder	Allow	PASS
14	ViewOrder	Allow	PASS
15	Comment	Allow	PASS
16	ViewShop	Allow	PASS

User			
Number	Function	Permission	Result
1	Login	Allow	PASS
2	Registration	Allow	PASS
3	PasswordResetRequest	Allow	PASS
4	PasswordReset	Allow	PASS

5	ChangeEmail	Allow	PASS
6	EditGame	Not Allow	PASS
7	AddNewGame	Not Allow	PASS
8	EditUser	Not Allow	PASS
9	EditProfile	Allow	PASS
10	ChangePassword	Allow	PASS
11	RefundProcess	Allow	PASS
12	UploadFile	Allow	PASS
13	EditOrder	Not Allow	PASS
14	ViewOrder	Allow	PASS
15	Comment	Allow	PASS
16	ViewShop	Allow	PASS

3.5 EXCEPTION HANDLING TEST

number	Exception details	Expected behavior	Results
1	Login an account which has not signed up	Show an error message	PASS
2	Login an account with wrong password	Show an error message	PASS
3	Check in an account who doesn't exist	Show an error message.	PASS
4	Search the ID of the user detail which will be edited does not exist	Show an error message	PASS
5	Search the ID of the game detail which will be edited does not exist	Show an error message	PASS
6	Search the ID of the order detail which will be edited does not exist	Show an error message	PASS
7	Search the ID of the Process Refund Request which does not exist	Show an error message	PASS
8	Sign up and repeat password is not the same as password	Show an error message	PASS
9	The input Email address format is not correct	Show an error message and deactivate the create button	PASS
10	Create account while the email address exists in the database	Showing that the email address already exists	PASS

4 CONTRIBUTIONS

Student ID	Name (in Pinyin/Chinese)	Contribution (in %)	Responsibilities/Work Done	Remarks
1730026073	Liu Rongkai	25%	demand design, UI design, front-end design, database design, test	Null
1730026090	Shen Hongyue	25%	demand design, UI design, front-end design, database design, test	Null
1730026045	Li Liangyu	25%	demand design, database design, back-end, Source code, test	Null
1730026006	Chen Hongzhou	25%	demand design, database design, back-end, Source code, test	Null