

BoilerHungry

Higher-Order Testing

Defects Log

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Defect No.	Defect Description	Defect Severity	Type of Higher-Order Testing	Test Case No. OR Description
1	When we added 10000 identical items to MyFoods, visiting the "home" page will lead to near to forever response time.	3	Performance, Volume	Testing both program's performance and volume at the same time by giving it enormous item to process.
2	The "Preferences" and "Exclusions" settings are vulnerable to XSS (cross-site scripting) attack. POC: submit content like <code><script>alert('xss')</script></code> , then visit the page again could execute arbitrary JavaScript code.	3	Security	Arbitrary JavaScript execution is dangerous if there are vulnerabilities in browser that may lead to more severe consequences.
3	There are no instruction for what content should be entered in the "Exclusions" section. We have to go through the Purdue dining room API to find out the valid values.	2	Usability	Testing the basic function of Exclusion
4	There are no instruction for what content should be entered in the "Preferences" section. And all possible values like "vegetarian" are not working at all.	2	Usability	Testing the basic function of Preference
5	The config file "settings.json" can be accessed directly in unencrypted form.	3	Security	In product backlog they specified the need of encrypted

				storage.
6.	When the server machine has 8080 port occupied by other program, the application will fail to launch.	2	Configuration	The application should be compatible to more diverse environments, and provide flexible configs.
7.	The user has to visit "home" page first before visiting any other pages, otherwise the server will respond 500 error.	3	Usability	The application should initialize all pages when the server started, and not rely on user's visiting order.
8.	The user has to use "localhost:8080" instead of "127.0.0.1:8080", nor when in LAN, using the "192.168.0.0/16" alike IP addresses to access the web page.	2	Usability & Configuration	"Localhost" is a host alias, and may be changed in different environment. The application should provide flexible options to allow different network interface to listen on.
9.	To choose which date of menu, user has to manually append data after the URL instead of operating on graphical interface.	1	Usability	The operations should be user friendly.
10.	After adding item with whitespace within its name to MyFoods, the server will crash without any notification, and user has to delete the item in the config file.	3	Usability	Testing function of adding item into MyFoods
11.	When adding food to "MyFoods", the food	1	Usability	Testing function of

	with the same name will not be marked until you refresh.			adding items to MyFoods
12.	When multiple users add food to “MyFoods” at the same time, the server will not sync with their operations and the final result will be shown only when user refreshes.	1	Usability	Testing function of adding items to MyFoods by multiple users
13.	When we perform a stress test with 10 request concurrency, and 10000 requests in total, the average time was 4770 ms/request, which is considered slow, but the CPU and memory consumption are kept reasonably low.	1	Stress	Should do more optimization, static caching for better stress performance.