

TestQuest case study

Situation

Table Top Media (TTM) is a hospitality management application that provides restaurant customers with the ultimate pay-at-the-table solution as a touch point interaction. It is the only one where users actually pay-on-demand. There's no waiting for the server to bring the check or payment device, because it is on every table.

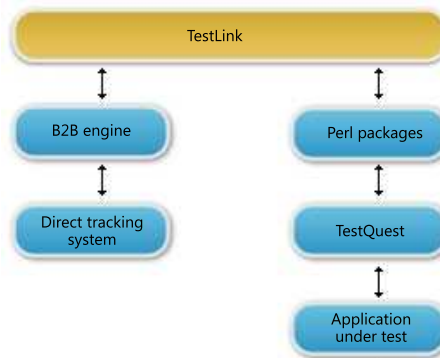
TTM is a Windows CE based application for which we needed to perform regression, functional, performance and UI tests. It also involved finding out memory leaks by performing a stress test.

Solution

TestQuest provides automated testing solutions for embedded systems with sophisticated human interfaces. Its open technology can serve as the automated testing platform for embedded system applications and devices ranging from cell phones, PDA's and tablets, to products with embedded technologies such as wireless enterprise systems and smart appliances.

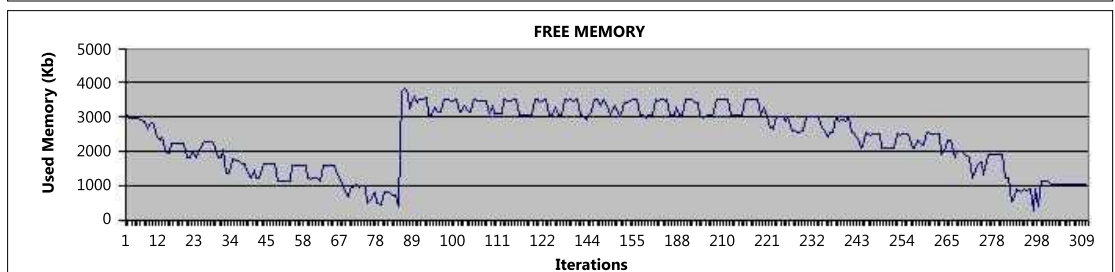
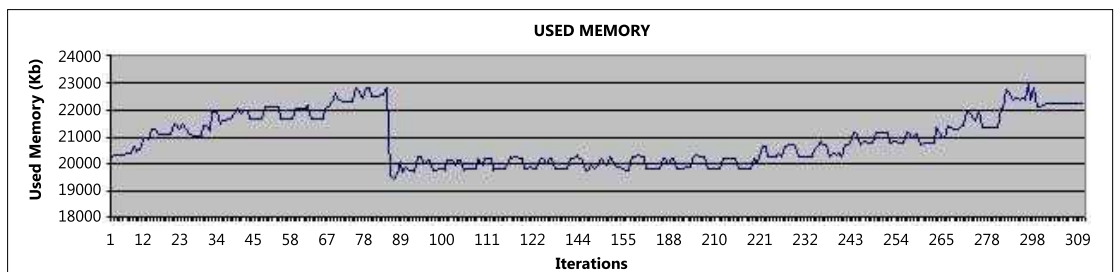
TestQuest helps solve customer problems and turn testing into a competitive advantage:

- ❖ By using the TestQuest Pro open source libraries, integration with TestLink was possible. An entire test suite in Test Link was automated and consequent bugs would also be reported on the bug tracker system



- ❖ With TestQuest we were able to write scripts that could be reused when changes occur, without having to completely redo the work
- ❖ In order to keep up the growing test matrix, 100% test coverage was maintained using TestQuest
- ❖ Automation using TestQuest provides repeatable, timely, unattended, cost-effective testing to improve quality and reduce overall quality assurance costs
- ❖ Modular design for test suites using Test Verb Technology (TVT) and higher level functions provided by TestQuest helps in developing more number of test cases and speedy execution
- ❖ TestQuest Pro was used for creating automated test cases for
 - Functional verification
 - Regression testing
 - User interface testing
 - Performance testing
 - Stress/load testing
 - Memory testing

Memory usage



Benefits of using TestQuest in TTM

- ❖ It allowed the development, debugging and unattended execution of test scripts
- ❖ TestQuest helped solving the testing and quality assurance problems through a proven blend of domain knowledge, test automation expertise and professional services. It helped in evaluating the test automation opportunities, designing and implementing robust, highly flexible test automation solutions, and providing test automation management services—all to help deliver the maximum ROI in the least amount of time
- ❖ Increased test coverage, enabling more testing in the same or less time for better reliability and quality
- ❖ Improved test accuracy. TestQuest solutions replace error-prone manual testing with consistent, repeatable tests, improving quality and helping limit performance problems after release
- ❖ Reduced test cycle time without adding people. Allowed creation and execution of different test suites using Test Information Manager (TIM). Test results were recorded in log files and more structured reports on the outcomes of tests are produced by TIM

Sample reports

	A	B	C	D	E	F
1	TV NAME	TIME	START/FINISH	STATUS	FREE MEMORY	USED MEMORY
11	ADD PROFILE	18:29:35	Finish	Passed	2520	21004
21	ADD SCHEDULE	18:30:56	Finish	Passed	2720	20804
31	ADD ITEM	18:32:11	Finish	Passed	2732	20792
41	CHANGE SCHEDULE	18:33:54	Finish	Passed	2728	20796
51	EDIT PROFILE	18:35:05	Finish	Passed	2728	20796
56	DELETE PROFILE	18:36:23	Finish	Passed	2716	20808
61	DELETE SCHEDULE	18:37:29	Finish	Passed	2716	20808
66	ADD ITEM	18:38:35	Finish	Passed	2716	20808
71	ADD MEMORY VARIA	18:39:40	Finish	Passed	2712	20812
76	ADD APPLIANCE	18:40:39	Finish	Passed	2704	20820
86	ADD DEVICE	18:41:52	Finish	Passed	2504	21020
96	ADD PROFILE	18:43:06	Finish	Passed	2516	21008
106	ADD PROFILE	18:44:12	Finish	Passed	2144	21380
116	ADD SCHEDULE	18:45:47	Finish	Passed	2316	21208
126	ADD SCHEDULE	18:46:50	Finish	Passed	2312	21212
131	ADD PROFILE	18:47:57	Finish	Passed	2712	20812
136	DELETE PROFILE	18:49:03	Finish	Passed	2696	20828
141	ADD PROFILE	18:50:09	Finish	Passed	2708	20816
146	DELETE PROFILE	18:51:14	Finish	Passed	2708	20816
151	ADD SCHEDULE	18:52:16	Finish	Passed	2644	20880
161	ADD PROFILE	18:53:27	Finish	Passed	2172	21352
171	ADD PROFILE	18:54:40	Finish	Passed	2308	21216
181	ADD SCHEDULE	18:55:44	Finish	Passed	2140	21384
191	ADD PROFILE	18:57:19	Finish	Passed	2304	21220
201	ADD SCHEDULE	18:58:23	Finish	Passed	2504	21020
206	DELETE PROFILE	18:59:30	Finish	Passed	2708	20816
211	DELETE PROFILE	19:00:20	Finish	Passed	2708	20816

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