



To succeed in business it is necessary to make others see things as you see them.

## Vista Pre-Certification Testing for Online Driving Tutorial

### Abstract

The application enabled users to take online driving tests after running through video tutorials and demonstrations. One of the key features of the application was Hazard Examination which allowed users to view and learn about driving experience with hazards. Videos in different modules of the system also guided user visually about “Online Driving Exams”. Exam pattern was “Multiple Choice Selection” and some questions had more than one answers according to pattern of questions. Microsoft runs program (Microsoft Vista Logo Certification) to certify applications for Vista Compatibility. Application should follow rules and standards for security compatibility and reliability features. QA team had tested each feature mentioned in the checklist on both the systems and got surety that operations were working as expected on both the systems.



## Client Profile

The client is a provider of “Online Driving Tutorial” that enables user to learn about “Online Driving Exams”. This training tutorial had theory examination with different options and user was able to practice an examination with various selective categories.

## Business Need

The application enabled users to take online driving tests after running through video tutorials and demonstrations. One of the key features of the application was Hazard Examination which allowed users to view and learn about driving experience with hazards. Some Highway Codes and rules were shown in the form of Book Type Environment. User was able to get various types of statistics and result reports based on the points obtained in examination. Videos in different modules of the system also guided user visually about “Online Driving Exams”.

Exam pattern was “Multiple Choice Selection” and some questions had more than one answers according to pattern of questions.

## Vista Logo Certification

Microsoft runs program (Microsoft Vista Logo Certification) to certify applications for Vista Compatibility. Application should follow rules and standards for security compatibility and reliability features.

Application was independently tested by a Microsoft approved testing vendor before the logo for certification was granted.

As part of this process, a document was provided with a guide line by Microsoft Corporation for making the application “Vista Compatible”.

## Challenges

The main challenges Gateway faced were:

- Unavailability of enough details about test case execution in the document provided by Microsoft Corporation, only expected results were mentioned for the cases, but the steps of execution were not mentioned so the team had to research the steps to achieve the results mentioned in guideline document.
- Close communication to manage and minimize gaps between Client, Development Team and the functionalities to be verified for making the system “Vista Compatible”.
- Downloading of different tools (with desired version) required to be installed with Vista environment.
- Preparation of two different test systems having same environment with installation of all necessary tools and for cross verification, testing of each functionality on these two machines.
- To refer reference sites as well as maintain close loop of communication with client for concluding the behavior of an application on Vista environment.
- Exploration from Microsoft Support site as well other references sites for clarity on compatibility issues.



# Case Study



## Gateway's Solution

Client entrusted Gateway's testing division to carry out end to end Vista pre-certification assessment of the product. Testing was done against Vista Compatibility Guideline provided by Microsoft Corporation with expected results and cases to be verified for an application.

The document contained information about the application's behavior and how the application passed certain requirements. When a Vista Logo Program requirement called for behavior to be documented, the information must be included in the logo document.

The requirements in Logo program guideline helped to make an application more compatible, reliable, and secure when running on the Windows Vista operating system. For Windows Vista Logo artwork, application had maintained all of these requirements.

We established two different systems with fresh installation of Windows Vista Ultimate and verified that no other software (except the required ones for testing) was installed on any of the systems. QA team had tested each feature mentioned in the checklist on both the systems and got surety that operations were working as expected on both the systems.

## Benefits

Gateway team had successfully maintained overall quality of the system in reference of "Vista Compatibility" and achieved Vista logo with certification for the system from Microsoft Corporation.

Close loop of communication with client from Gateway team made this achievement possible with Quality and deadline.

## Technology

- Microsoft .NET 2005 with framework 2.0
- Microsoft Vista Logo Testing Tools (Orca, Application verifier, CFF Explorer)
- XML (Database)
- Windows Vista Ultimate
- Mantis BT (Bug Tracking tool)

## Industry

E-Learning



## Approach

- Team had worked on Test plans and Cases provided by Microsoft Corporation for Vista Logo Certification.
- Voice chat and use of GoToMeeting with client to understand the system behavior under typical cases.
- Daily Status Reporting to Client at the end of each day covering details about execution of cases, time consumption, error reporting with enough description and screen shots.
- Regularly researching for latest updates of tools, versions and features those can be beneficial in test case execution.

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