

Test Strategy

Oracle Browser

Product Elements - Functions

Purpose

The purpose of this Test Strategy is to define the overall approach that will be taken by the Test Team when delivering testing of Opera Browser functions..

The document helps to clarify the testing activities, roles and responsibilities, processes and practice to be used.

Test Items

For each Release the Test Engineer will create a table of Test Items that will be in scope of the testing being planned. In addition the Test Engineer will record any Test Items that cannot be tested by the test team. The Test Plan will contain Test Items that are In-Scope and Out-of-Scope.

Functions to be tested

- User Interface: any functions that mediate the exchange of data with the user
 - navigation – menus, forms, popup windows
 - display – different resolutions, multiple windows
 - data entry – completing forms, changing parameters
- System Interface: any functions that exchange data with something other than the user
 - cooperation with other programs (e.g. Flash Player)
 - hard disk (when limited space is available)
 - network (e.g. When no network is available)
 - printer (e.g. When no printer is available)
- Application:
 - any function that defines or distinguishes the product or fulfills core requirements.
- Transformations: functions that modify or transform something
 - setting preferences
 - inserting clip art
 - removing stuff
 - uploading files
- Startup/Shutdown: each method and interface for invocation and initialization as well as exiting the product.
 - Starting from GUI
 - starting the application from terminal
 - closing from GUI
 - closing PID from terminal
- Multimedia:
 - sounds – how many sound types can be played
 - pictures – processing pictures, resolutions
 - videos, or any graphical display embedded in the product.
- Error Handling:
 - error detection
 - error logging – where are the log files, how easily they can be reached and logging levels
 - error messages – how understandable they are
- Interactions: any interactions or interfaces between functions within the product
- Testability:
 - diagnostics tools
 - log files

Functions not to be tested

- Usability
- Scalability
- Security
- Reliability
- Performance

Approach

All testing tasks will be conducted in line with the Heuristics Test Strategy Model. The document used (<http://www.satisfice.com/tools/satisfice-tsm-4p.pdf>) will be completed both by the Test Team and the project participants that are responsible for providing information and deliverables to the Test Team.

Analysis & Planning Phase Exit Criteria

The following criteria need to be achieved:

- Test Breakdowns and Test Cases are written and peer reviewed
- Knowledge Share document has been completed and reviewed by the Test Engineers
- Walkthrough and sign-off completed for the Test Plan and Test Breakdowns
- Defined Test Estimate has been published and agreed
- The list of features in the Test Breakdown have been prioritised.

Test Phase Exit Criteria

- The *Test Summary Report* will be completed.
- All planned testing activities has been completed to agreed levels.
- All high priority bugs have been fixed, retested and passed.
- No defects must be left in an open unresolved status.

Test Preparation

- Number of Test Scenarios v. Number of Test Cases
- Number of Test Cases Planned v. Ready for Execution
- Total time spent on Preparation v. Planned time

Test Execution and Progress

- Number of Tests Cases Executed v. Test Cases Planned
- Number of Test Cases Passed, Failed and Blocked
- Total Number of Test Cases Passed by Test Item / Test Requirements
- Total Time Spent on Execution vs Planned Time

Bug Analysis

- Total Number of Bugs Raised and Closed
- Total Number of Bugs Closed v. Total Number of Bugs Re-Opened
- Bug Distribution Totals by Severity
- Bug Distribution Totals by Test Item by Severity

Table of Issue Severity

- Crash – System crash, data loss, no workaround
- Major – Operational error, wrong result
- Minor – Minor problems
- Incidental – Cosmetic problems

Table of Test Scenario Priority

- Essential to the Product
- Necessary to the Product
- Preferred, but not essential to the Product

Test Deliverables

- Test Plan
- Test Schedule
- Test Breakdown
- Test Cases
- Periodic progress
- Bug Reporting
- Test Summary Reports

Risks and Contingencies