To understand GUI Testing lets first understand-What is GUI?

There are two types of interfaces for a computer application. Command Line Interface is where you type text and computer responds to that command. GUI stands for Graphical User Interface where you interact with the computer using images rather than text.

Following are the GUI elements which can be used for interaction between the user and application:

○ True ୍ False Radio Button □ Check □ Check Check Box Text Box List Box

GUI Testing

GUI Testing is a validation of the above elements.

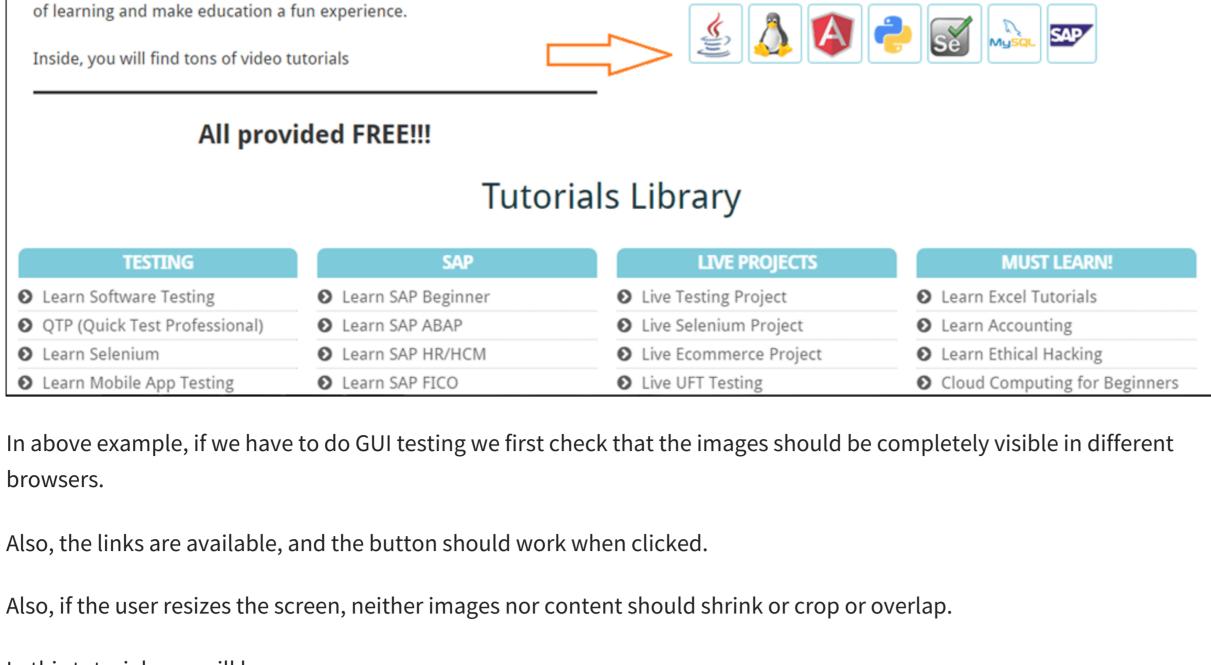
User Interface (GUI) Testing is to ensure the functionalities of software application work as per specifications by checking

screens and controls like menus, buttons, icons, etc. GUI is what the user sees. Say if you visit guru99.com what you will see say homepage it is the GUI (graphical user

interface) of the site. A user does not see the source code. The interface is visible to the user. Especially the focus is on the design structure, images that they are working properly or not.

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experience.



• What is GUI Testing? • Need of GUI Testing What do you Check-in GUI Testing?

• Approach of GUI Testing

• GUI Testing Test Cases

- Challenges in GUI Testing
- **Need of GUI Testing**
- Why do GUI testing?
- Is it really needed?

A normal User first observes the design and looks of the Application/Software and how easy it is for him to understand the UI. If a user is not comfortable with the Interface or find Application complex to understand he would never going to use

The following checklist will ensure detailed GUI Testing in Software Testing.

 Check Error Messages are displayed correctly • Check for Clear demarcation of different sections on screen

• Check that the images are properly aligned • Check the positioning of GUI elements for different screen resolution.

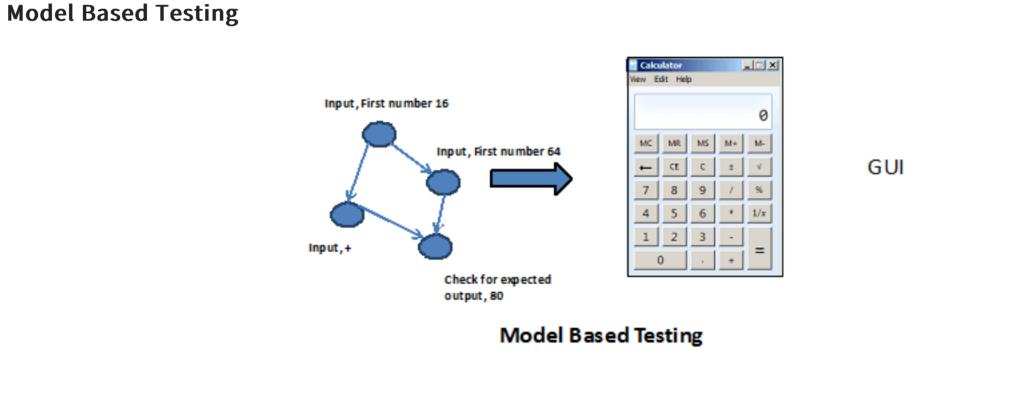
- **GUI Testing Techniques GUI Testing Techniques** can be categorized into three parts:
- **Manual Based Testing**
- the business requirements document.

Tester checks for addition of two

numbers manually (16+64)

Playback

GUI

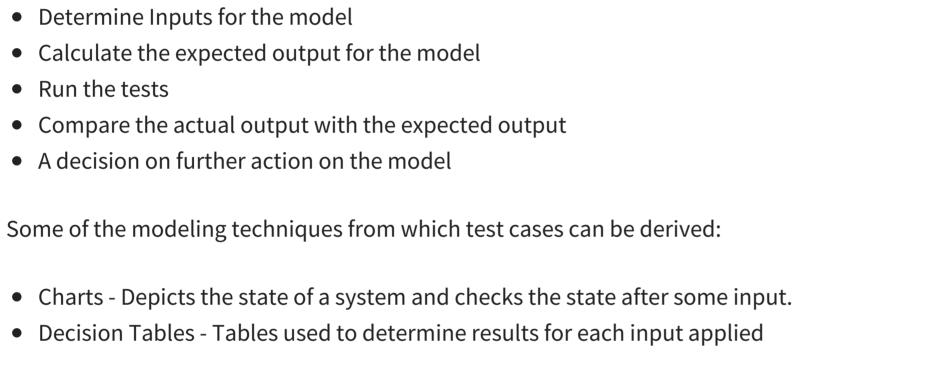


A model is a graphical description of a system's behavior. It helps us to understand and predict the system behavior.

Models help in a generation of efficient test cases using the system requirements. The following needs to be considered

for this model based testing: • Build the model

• Run the tests



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Following are open source tools available to conduct automated UI Test.

4.	Testing of the font whether it is readable or not.
5.	Testing of the screen in different resolutions with the help of zooming in and zooming out like 640 x 480, 600x800, etc.
6.	Testing the alignment of the texts and other elements like icons, buttons, etc. are in proper place or not.
7.	Testing the colors of the fonts.
8.	Testing the colors of the error messages, warning messages.
9.	Testing whether the image has good clarity or not.
10.	Testing the alignment of the images.
11.	Testing of the spelling.
12.	The user must not get frustrated while using the system interface.
13.	Testing whether the interface is attractive or not.
14.	Testing of the scrollbars according to the size of the page if any.

New UI Test Window Tester UI Test Create a new Window Tester UI test

Package:

Name:

V

V

Following below is the example of the Test cases, which consists of UI and Usability test scenarios. TC 01- Verify that the text box with the label "Source Folder" is aligned properly. TC 02 - Verify that the text box with the label "Package" is aligned properly. TC 03 – Verify that label with the name "Browse" is a button which is located at the end of TextBox with the name "Source Folder." TC 04 – Verify that label with the name "Browse" is a button which is located at the end of TextBox with the name TC 05 – Verify that the text box with the label "Name" is aligned properly. TC 06 – Verify that the label "Modifiers" consists of 4 radio buttons with the name public, default, private, protected. TC 07 – Verify that the label "Modifiers" consists of 4 radio buttons which are aligned properly in a row. TC 08 – Verify that the label "Superclass" under the label "Modifiers" consists of a dropdown which must be properly TC 09 – Verify that the label "Superclass" consists of a button with the label "Browse" on it which must be properly TC 10 – Verify that clicking on any radio button the default mouse pointer must be changed to the hand mouse pointer. TC 11 – Verify that user must not be able to type in the dropdown of "Superclass." TC 12 – Verify that there must be a proper error generated if something has been mistakenly chosen.

TC 17 – Verify that all the pages must contain the proper title. TC 18 – Verify that the page text must be properly aligned. TC 19 – Verify that after updating any field a proper confirmation message must be displayed.

TC 16 – Verify that the TAB button must be work properly while jumping on another field next to previous.

TC 20 - Verify that only 1 radio button must be selected and more than single checkboxes may be selected.

TC 15 – Verify that the single radio buttons must be selected by default every time.

TC 14 – Verify that proper labels must be used in the error messages.

Following is a list of popular **GUI Testing Tools**: Ranorex Selenium

The success of a software product immensely depends on how the GUI interacts with the user and ease in using its various features. Hence, GUI testing is very important. Manual GUI testing can sometimes be repetitive and boring and hence error-prone. Automation is highly recommended for GUI testing.

Prev

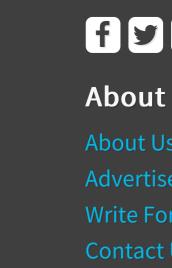
Certified Software Automation Quality **Testing Framework** Analyst(CSQA) for Agile/Scrum **Testing? (with Certification Guide Methodology Example)** What is CSQA? CSQA **Agile Automation Endurance Testing** Endurance Testing is non-functional

Report a Bug

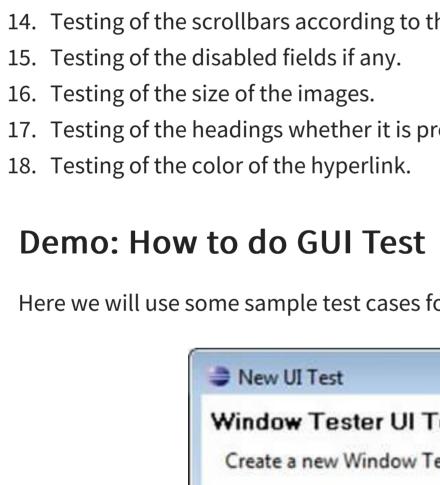
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ipacman.

private

Browse...

Browse...

Browse...

Cancel

Finish

Source folder: pacmanFunctionalTest/src

protected

o default public Modifiers: com.windowtester.runtime.swing.UITestCaseSwing Superclass: Create folders automatically if they do not exist Add build path dependencies automatically ?

SALESmanago: #1 AI CDX

AI CDXP you ca OPEN TC 13 - Verify that the error must be generated in the RED color wherever it is necessary.

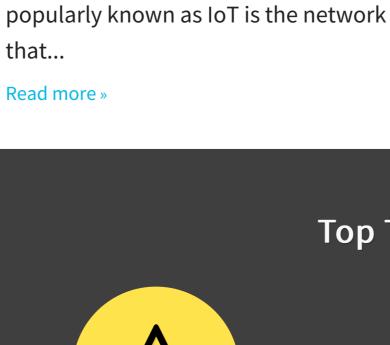
don't have any documents regarding GUI changes. **GUI Testing Tools**

stands for Certified Software Quality Testing Agile Automation Testing in type of software testing where a Analyst . This course is provided by software development is an approach software is... QAI... of using...

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This article is made possible by the contributions of Swati Ghildiyal, Prateek Chandra and Guru99. Next > **What is Endurance Testing in Software**

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In this tutorial, you will learn-

• Demo: How to conduct GUI Test

Now the basic concept of GUI testing is clear. The few questions that will strike in your mind will be

• Does testing of functionally and logic of Application is not more than enough?? Then why to waste time on UI testing.

To get the answer to think as a user, not as a tester. A user doesn't have any knowledge about XYZ software/Application. It is the UI of the Application which decides that a user is going to use the Application further or not.

that Application Again. That's why, GUI is a matter for concern, and proper testing should be carried out in order to make sure that GUI is free of Bugs.

What do you Check-in GUI Testing?

• Check all the GUI elements for size, position, width, length, and acceptance of characters or numbers. For instance, you must be able to provide inputs to the input fields. • Check you can execute the intended functionality of the application using the GUI

• Check Font used in an application is readable • Check the alignment of the text is proper • Check the Color of the font and warning messages is aesthetically pleasing Check that the images have good clarity

Under this approach, graphical screens are checked manually by testers in conformance with the requirements stated in

Record and Replay GUI testing can be done using automation tools. This is done in 2 parts. During Record, test steps are captured by the

addition of two numbers manually (16+64)

tools - QTP.

Model based testing is an evolving technique for generating test cases from the requirements. Its main advantage, compared to above two methods, is that it can determine undesirable states that your GUI can attain.

Product

AutoHotkey

Selenium

Robot Framework Water Dojo Toolkit

GUI Testing basically involves

Example GUI Testing Test Cases

3. Testing the different sections of the screen.

1. Testing the size, position, width, height of the elements.

2. Testing of the error messages that are getting displayed.

16. Testing of the size of the images. 17. Testing of the headings whether it is properly aligned or not. 18. Testing of the color of the hyperlink. Demo: How to do GUI Test Here we will use some sample test cases for the following screen.

"Package."

aligned.

aligned.

larketing, Social Proof, earch, Al Live Chat.

Challenges in GUI Testing In Software Engineering, the most common problem while doing Regression Testing is that the application GUI changes frequently. It is very difficult to test and identify whether it is an issue or enhancement. The problem manifests when you

• QTP

Cucumber

• TestComplete

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automation tool. During playback, the recorded test steps are executed on the Application Under Test. Example of such Tester checks for

Record