11 Software Testing Objectives

HOME | ABOUT US | SERVICES | CONTACT

ProGoTools Software Testing > Services > Overview

We offer third-party **fault detection** and **fault prevention**. Our services are available for software at all phases of development. We use **oracles** to generate projections of your software. Our team of engineers **compares** those projections to test results. Our testers make sure that your code is free of **errors**. This means that we catch problems before they become **faults** or **failures**.

Our engineers develop specific **test criteria** for each project. We work closely with clients to ensure that we understand the software's requirements. We test carefully to make sure we **satisfy** all **expected** qualities.

Our engineers are experts in all models of fault prevention. We also offer **prevention model** and **evaluation model** testing. We recommend these services for software in earlier stages of development. We offer **demonstration model** and **destruction model** testing. These are recommended for software in later stages of development.

Get ready!

1 Before you read the passage, talk about these questions.

1 What causes software failures to occur?

2 What are some different models of fault detection?

Reading

2 Read the webpage. Then, mark the following statements as true (T) or false (F).

1 __ Oracles are compared to the test criteria.

2 __ The company changes test criteria for each project.

3 __ Evaluation model testing is recommended for software in the later stages of development.

Vocabulary

3 Fill in the blanks with the correct words and phrases from the word bank.

word BANK

error	evaluation model	expected
oracle	prevention model	test criteria

1 Faults that are predicted are _____.

2 If an engineer makes a mistake in a software's code, this is a(n) _____.

3 The _____ attempts to stop faults before they occur.

4 The _____ detects design and implementation faults.

5 Software must meet all _____ before it passes a test.

6 Engineers can use a(n) _____ as a comparison tool.

LIVEWORKSHEETS

4 Read the sentence pairs. Choose which word or phrase best fits each blank.

1 **failure / fault**

A A _____ is caused by a human error in coding or input.

B A _____ is an observable occurrence.

2 **fault detection / fault prevention**

A _____ stops problems from occurring.

B _____ identifies problems.

3 **satisfy / compare**

A Engineers use programs to _____ test results with expectations.

B Software must _____ certain requirements set by engineers.

4 **demonstration model / destruction model**

A The _____ ensures that software completes required tasks.

B The _____ detects implementation faults.

5 Listen and read the webpage again. How does the company detect and prevent faults?

Listening

6 Listen to a conversation between a software engineer and a project manager. Choose the correct answers.

1 Which type of test results does the man wants to see?

A prevention model

B demonstration model

C destruction model

D evaluation model

2 What is the woman likely to do next?

A perform the same test again to verify results

B consult another team of engineers

C reevaluate the test criteria

D compare the test results to an oracle

7 Listen again and complete the conversation.

Manager: I need an update **1** _____ _____ _____ for the latest project.

Engineer: I was just **2** _____ _____ the latest test results.

Manager: What do they say?

Engineer: It looks like the software did pretty well. Only **3** _____ _____ were detected.

Manager: What testing model did you use?

Engineer: For this test we used **4** _____ _____ _____.

Manager: Good. **5** _____ _____ _____ to determine where the failures are coming from. Then have an engineer to fix them.

Engineer: Okay. We will probably **6** _____ _____ _____ tests while we do that.

Speaking

8 With a partner, act out the roles below based on Task 7. Then, switch roles.

USE LANGUAGE SUCH AS:

I need an update on ...

It looks like ... / I'd like to see ...

Student A: You are a project manager. Talk to Student B about:

- the test results on a software project
- how faults will be fixed
- what testing models to use

Student B: You are an engineer. Talk to Student A about the test results on a software project.

Writing

9 Use the conversation from Task 8 to complete the testing summary.

Testing Summary Report

Project: TX907

Tests completed: _____.

Results: _____.

Recommendation: _____.

Tests to Complete: _____.

LIVEWORKSHEETS