

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.

- 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 want 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: _____