

## ISTQB EXAM CERTIFICATION

[Home](#) [Blog](#) [ISTQB Foundation Level](#) [ISTQB Advanced Level Test Manager](#) [Agile Testing Tutorial](#) [ISTQB Dumps – Mock Tests](#) [2018 ISTQB Exam Dates](#)  
[Contact Us](#)

[« Previous Topic](#)[Next Topic »](#)

# What is Prototype model- advantages, disadvantages and when to use it?

[Facebook](#)[LinkedIn](#)[Twitter](#)[Google+](#)[Email](#)

The basic idea in **Prototype model** is that instead of freezing the requirements before a design or coding can proceed, a throwaway prototype is built to understand the requirements. This prototype is developed based on the currently known requirements. Prototype model is a **software development model**. By using this prototype, the client can get an “actual feel” of the system, since the interactions with prototype can enable the client to better understand the requirements of the desired system. Prototyping is an attractive idea for complicated and large systems for which there is no manual process or existing system to help determining the requirements.

The prototype are usually not complete systems and many of the details are not built in the prototype. The goal is to provide a system with overall functionality.

Diagram of Prototype model:

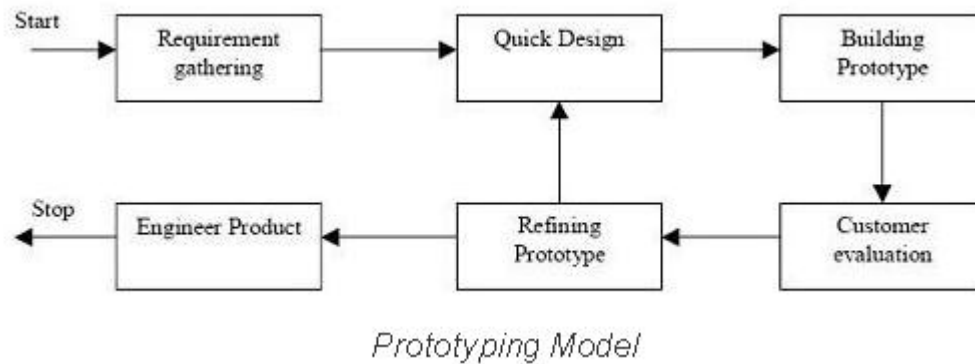
SEARCH

SEARCH

## ISTQB CERTIFICATION EXAM STUDY MATERIAL

## Chapter 1. Fundamentals of testing

[What is Software testing?](#)[Why is testing necessary?](#)[Software testing objectives and purpose](#)[What is Defect or bugs or faults?](#)[What is a Failure?](#)[From where do Defects and failures arise?](#)[When do defects arise?](#)[What is the cost of defects?](#)[Defect or Bug Life Cycle](#)[What is the difference between Severity and Priority?](#)[Principles of testing](#)[Fundamental test process](#)[Psychology of testing](#)[Independent testing- it's benefits and risks](#)



### Advantages of Prototype model:

- Users are actively involved in the development
  - Since in this methodology a working model of the system is provided, the users get a better understanding of the system being developed.
  - Errors can be detected much earlier.
  - Quicker user feedback is available leading to better solutions.
  - Missing functionality can be identified easily
  - Confusing or difficult functions can be identified
- Requirements validation, Quick implementation of, incomplete, but functional, application.

### Disadvantages of Prototype model:

- Leads to implementing and then repairing way of building systems.
  - Practically, this methodology may increase the complexity of the system as scope of the system may expand beyond original plans.
  - Incomplete application may cause application not to be used as the full system was designed
- Incomplete or inadequate problem analysis.

## Software Quality

Chapter 2. Testing throughout the testing lifecycle

What is Verification?

What is Validation?

Capability Maturity Model (CMM-Levels)

Software Development Life Cycle

Software Development Life Cycle (SDLC) phases

Software Development Models

Waterfall model

V-model

Incremental model

RAD model

Agile model

Iterative model

Spiral model

Prototype Model

Software Testing Levels

Unit testing

Component testing

Integration testing

Big Bang integration testing

Incremental testing

## When to use Prototype model:

- Prototype model should be used when the desired system needs to have a lot of interaction with the end users.
- Typically, online systems, web interfaces have a very high amount of interaction with end users, are best suited for Prototype model. It might take a while for a system to be built that allows ease of use and needs minimal training for the end user.
- Prototyping ensures that the end users constantly work with the system and provide a feedback which is incorporated in the prototype to result in a useable system. They are excellent for designing good human computer interface systems.

You might also be interested in :

[What is Waterfall model?](#)

[What is Agile Model?](#)

[What is V-model?](#)

[What is Incremental model?](#)

[What is Spiral model?](#)

[What is RAD model?](#)

## Other popular articles:

- [What is Iterative model- advantages, disadvantages and when to use it?](#)
- [What is RAD model- advantages, disadvantages and when to use it?](#)
- [What is Incremental model- advantages, disadvantages and when to use it?](#)
- [What is Waterfall model- advantages, disadvantages and when to use it?](#)
- [What is Compatibility testing in software testing?](#)

[Component integration testing](#)

[System integration testing](#)

[System testing](#)

[Acceptance testing](#)

[Alpha testing](#)

[Beta testing](#)

[Software Test Types](#)

[Functional testing](#)

[Non functional testing](#)

[Functionality testing](#)

[Reliability testing](#)

[Usability testing](#)

[Efficiency testing](#)

[Maintainability testing](#)

[Portability testing](#)

[Baseline testing](#)

[Compliance testing](#)

[Documentation testing](#)

[Endurance testing](#)

[Load testing](#)

[Performance testing](#)

[Compatibility testing](#)

[Security testing](#)

[Scalability testing](#)

[Volume testing](#)



## Get the ASTQB Advantage.

Register for your ISTQB exam via ASTQB to get fair exam questions & extra career bonuses.

[Facebook](#)
[LinkedIn](#)
[Twitter](#)
[Google+](#)
[Email](#)

## Download 200+ Software Testing Interview Questions and Answers PDF



### Get the job you want

Take your career to the next level

PDF will be sent by email

Please enter correct email id

Email id where we will send the PDF

EMAIL ME THE PDF

Filed Under: [Testing throughout the testing life cycle](#)

Tagged With: [advantages](#), [advantages of prototype model](#), [Diagram of Prototype model](#), [disadvantages](#), [disadvantages of prototype model](#), [Prototype model](#), [when to use prototype model](#)

[« Previous Topic](#)

[Next Topic »](#)

[Stress testing](#)

[Difference between Volume, Load and stress testing in software](#)

[Recovery testing](#)

[Internationalization testing and Localization testing](#)

[Confirmation testing](#)

[Regression testing](#)

[Structural testing](#)

[Maintenance Testing](#)

[Impact analysis](#)

Chapter 3. Static Techniques

[Test design techniques](#)

[Static test technique](#)

[What is static Testing?](#)

[Uses of Static Testing](#)

[Informal reviews](#)

[Formal reviews](#)

[The roles and responsibilities of the moderator, author, scribe, reviewers and managers involved during a review](#)

[Types of review](#)

[Walkthrough](#)

[Technical review](#)

[Inspection](#)

## Comments

saidi says

May 25, 2018 at 7:36 pm

helpful information.

Reply

Tahir says

May 6, 2018 at 10:24 pm

Which model we choose for critical system and facing different requirements changing from the customers.

Reply

ali says

April 10, 2018 at 5:36 pm

what the author name i for reference in my project.

Reply

What is static analysis?

What is a static analysis tools?

Chapter 4. Test design techniques

Test analysis

Traceability

Test design

Test implementation

Test design technique

Categories of test design techniques

Static testing techniques

Dynamic testing technique

i. Black box testing or Specification-based

Equivalence partitioning (EP)

Boundary Value Analysis (BVA)

why it is important to do both EP and BVA

Decision tables

State transition testing

Use case testing

ii. White box testing or Structure-based

iii. Experience-based testing

Error guessing

Exploratory testing

Structure based technique

Test coverage

Where to apply this test coverage?

ISTQB Guide says

April 10, 2018 at 8:20 pm

The authors name is S Kumar

Reply

takundamn says

April 4, 2018 at 1:51 am

thanks so much for this data, am learning a lot from you guys, keep it up



Reply

payman says

January 9, 2018 at 1:31 am

very nice

Reply

Why to measure code coverage?

How we can measure the coverage?

Types of coverage

Statement coverage

Branch Coverage or Decision Coverage

Condition coverage

How to choose that which technique is best?

Chapter 5. Test management

Roles and responsibilities of a Test Leader

Roles and responsibilities of a Tester

Purpose and importance of test plans

Things to keep in mind while planning tests

What testing will involve and what it will cost?

Estimation techniques

Factors affecting test effort

Test strategy

Test monitoring

Test control

Configuration management

Risks in software testing

Product risk

Project risk

Risk-based testing

jacob evarist says

January 4, 2018 at 7:23 pm

you guys your really working hard, proceed making us learn more

Reply

Tinotenda Mazikana says

November 4, 2017 at 8:48 pm

it is really helpful

Reply

Student says

October 31, 2017 at 4:06 pm

@istqb exam guide , could you pls explain the differences between prototype , incremental and iterative models?

Reply

Risk analysis

Incident management

Incident logging Or How to log an Incident

What are incident reports?

How to write a good incident report?

What is test status report?

Chapter 6. Tool support for testing

Types of test tools

Tool for management of testing and tests

Test management tools

Requirements management tools

Incident management tools

Configuration management tools

Static testing tools

Review process support tools

Static analysis tools (D)

Modelling tools (D)

Test specification tools

Test design tools

Test data preparation tools

Test execution and logging tools

Test execution tools

Test harness/ Unit test framework tools (D)

Shital says

October 27, 2017 at 1:19 pm

Really so good explanation !!

Reply

Sandra dogzky says

October 7, 2017 at 11:30 am

Thankyou so much... This is. So helpfull

Reply

Oscar says

September 6, 2017 at 7:29 pm

thanks i love this website as it is really helpful

Reply

Test comparators

Coverage measurement tools (D)

Security tools

Performance and monitoring tools

Dynamic analysis tools (D)

Performance testing, Load testing and stress-testing tools

Monitoring tools

Advantages and benefits of using testing tools

Disadvantages and risks of testing tools

Factors for software testing tool selection

Proof-of-concept or piloting phase for tool evaluation



putti says

August 10, 2017 at 7:50 pm

thanks for simple explantion

Reply

AJ says

July 21, 2017 at 6:49 pm

Whos the creator or author of this particular prototype model?

Reply

UNISA KABBA says

July 21, 2017 at 4:52 pm

hay i feel so good about what i learn thanks so much

Reply

UNISA KABBA says

July 21, 2017 at 4:50 pm

hay i so good about what learn thanks

Reply

lorraine says

July 12, 2017 at 2:08 am

thanks... so helpful

Reply

lauren says

July 4, 2017 at 5:11 pm

sorry spelt tonne wrong lol :['( XD xooxrawr

Reply

lauren says

July 4, 2017 at 5:10 pm

amazing- helped me so much, thanks a ton

Reply

obageto says

September 30, 2013 at 2:08 pm

Thanks i like the way you xplain it. Simple to comprehend.

Reply

## Leave a Reply

Your email address will not be published. Required fields are marked \*

Comment

Name \*

Email \*

POST COMMENT

## PERFORMANCE TESTING

[JMeter Tutorial](#)[LoadRunner Tutorial](#)

## TRENDING POSTS

[Cost of Quality \(COQ\)](#)[Risk Based Testing -  
Identifying, Assessing,  
Mitigating & Managing  
Risks](#)[Complete guide to defect  
management](#)

**How to define, track,  
report & validate metrics  
in software testing?**

---

**Complete Guide to  
Career in Software  
Testing - Career Growth,  
Roles, Responsibilities**

---

**Big Data Testing -  
Complete beginner's  
guide for Software  
Testers**

---

**What is a Test Case?  
Example Template,  
Types, Best Practices**

---

#### POPULAR POSTS

**Mobile app testing  
checklist**

---

**What is Waterfall model?  
When to use it?**

---

**SDLC**

---

**What is V-model? When  
to use it?**

---

**What is Spiral model?  
When to use it?**

---

**Agile model - When to  
use it?**

---

#### CATEGORIES

**Fundamentals of testing**  
(15)

**ISTQB Agile Testing  
Certification** (31)

**ISTQB Certification** (14)

**ISTQB Test Manager** (39)

**Software Testing** (19)

**Static techniques** (13)

**Test design techniques**  
(29)

**Test Management** (22)

**Testing throughout the  
testing life cycle** (53)

**Tool support for testing**  
(22)

---

All content is copyright of <http://ISTQBExamCertification.com>