Software Maintenance

Presentation Outline

Introduction to Software Maintenance

Types of Software Maintenance

 Problems associated with Software Maintenance

Introduction

 Software maintenance denotes any changes made to a software product after it has been delivered to the customer

It is inevitable for almost any kind of product

Introduction

(Contd...)

 However, most products need maintenance due to the wear and tear caused by use

 Software products do not need maintenance on this count, but need maintenance to correct errors, enhance features, port to new platforms, etc.

The requirement of software maintenance arises on account of the three main reasons:

- Corrective
- Adaptive
- Perfective

(Contd...)

 Corrective maintenance of a software product becomes necessary to rectify the bugs observed while the system is in use.

(Contd...)

A software product might need maintenance when the customers need the product to run on new platforms, on new operating systems, or when they need the product to be interfaced with new hardware or software. This is known as Adaptive maintenance.

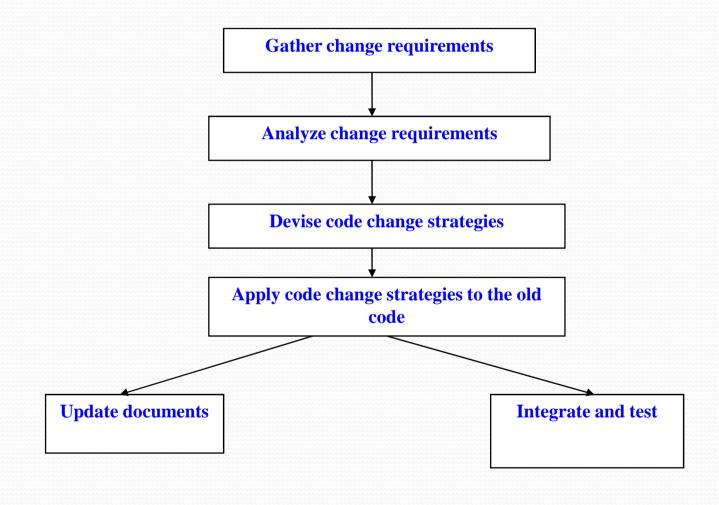
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A software product needs maintenance to support the new features that users want it to support, to change different functionalities of the system according to customer demands, or to enhance the performance of the system. This is known as Perfective maintenance.

Problems associated with Software Maintenance

- It is one of the neglected areas of Software Engineering
- It is mostly carried out using ad hoc techniques,
 rather than through systematic and planned activities
- During maintenance, it is necessary to thoroughly understand someone else's work and then carry out the required modifications and extensions
- Problems related to legacy systems

Software Maintenance Process Model



That's all about Software Maintenance