SOFTWARE ENGINEERING

ASSIGNMENT-5

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Ques-1) what is the difference b/w yeneric and Cuntom 8/0 product?

Answer-1)

- Yerain Software Product development

It is a process executed by the developers that develop the software product. Usually the product is made of for an types of business needs which has a positive demand in the market over a duration of time. Software development companies develop generic software on their own hand and handles its cutomen from of companies having shuilian needs.

- Customer software product development

In this product development companies build product for / on Endiwidual Client. Individual client may be an Endiwiduals group in company. The product here a distinct meed in the market only for a bruited time and is for specialized business needs.

Differences are

development Process

Custom software product development.

- * It is done for developing general purpose software
- denetopen have to depict end en es sperifications
- * form derigning and marketing this development & very d'officult
- * Large number of wers may be very their kind of software
- * Quality of a product may or may met be preference.
- * Development kan controls the process.

eq. word editing software,

- as per needs of partleuter product.
- I In the process the end wer requirement can be aggregated by communicating with them.
- * The does not indude marketing on it as it is deulloped for appropriate group of wers
- * The software & med by Ilmited no. of people
- * Quality is the mater crefering for this developmental process. * Currowers control the development process
- eq. Inventory control management system.
- Ques-2 What are the four suport and attoibutes which are softwere product should have? Four other attributes that may be somethings significant.

Aus-2: The four important auxibites that softenace have areas:

- * Maintainiblity: Software muit be maintainable
 - > unmalwable software is difficult to change to meet new demands. software should be able to easily evolve as change is frewtable in software business.
- It middle be anelliveent of engineers had to remnite the gestevare strom ground again every time they needed to make a change, it includes having a good framework, men downerted dean code, even when thempes are made, they must follow maderathiblity.

- * Depardability: Software munt be dependable and secure. Software should not have any buy. The wer should not face any sost of problems while using the softmane and mase if there is a failure in the system, there should not be any physical or economical damage by the software and centuous were should but have any access to the software.
- A Efficiency: 8 afteriore must be of Perseit.
 - 1.) Software should only me as much many gresources as it
 - (.) wasteful une of siesources may down and decreace Tresponsiveners.
- * Usuability (Acceptability): 80 Hurane muit be acceptable and

 - (0) 94 should be compatible with the system its was anefunce (0) 4000 inversares the understandility & usuality. grampe: - A mel application.

The other abributes floot are significant are: -

- (e) Scalable
- (1) Modern
- (1) Ethical
- (1) original
- (1) Reliable
- () guerauticity

- Ques-3 Explain why the programs that are developed using evolutionery model are difficult to maintain?
- Ans 3:- Endutionary moder also was the phototyping model or Just Pkratine model. & this model the prototypes of the model are resumed quickly for the clients. And for their feedback it i rebuild again.

But the softwares that are prepared using this model are difficult to maintain because of the following reasons:

- * It leads to Emplementing and then repairing may of building system => This practically encreases the complenity as the scope of the
- Bystem may expand beyound original plans.
- -> En complete application may cause application not to be med as the full system was designed.
 - -) Tui il su complete or snadequate problem analysis

bues-4 Canuda a University registration system identify sides associated with system.

Aury The sury associated with such a system are as follows A The software hardware associated with system may not be able to handle multiple ports.

* The server may collapse due to heavy network traffix by student on registration day.

* The gystem may not be scalable to other department /virusitie (2) meeded).

* Lower productivity of system may lead to search for new options.

& Number of Students right heary per year may knew care about cary

& The system may not be secured enough I thus never is unauthorised acters by people.

- Describe the situations for which they are suitable to apply.
- Au-5) Forward engineering
- It is the method of creating or making an application enter the help of the given requirements.
 - > Escuera englucering le also known as Revovation and reclamation
- -> It requires bigh profécency slice. It takes more flue to construct/ develop are application.
- the nature of formand engg. I perspertine
- Torcuard engliceines les suitable fri-
 - (a) Construction of electronice lest
 - (b) Construction of DC motor etc.

Neverse Engineering

- -> In neuvre engineering/backward engineering, the information is collected from the given application.
- It takes less there than formand engg. to develop an application.

 g The application are broken to extraw knowledge of its architecture.
- -> It is a low proficiency skell
- Reverse Engg. i suitable for :-
 - (a) Research on INSTRUMENTS
 - (b) Blud AIR Value Components etc.
- Ques-6) Define black-hon/ white box feeting. Apply them by Land to any program and write the nesunt (me technique for early peting). Au-6) BLACK-BOX Texting
 - 9+ 31 a 8/10 terring method in which the internal structured design (Purplementation of the ifen being terted is not known to Jelei)

- > 91 & mostly done by s/10 textiens.
- It lesting can be done on the bain of dequirement sperification
- => 9t is not suitable or preferred for algorithm terting.
 - * Boundary value analysis: Boundries are good places for como to occur heme boundoies are also checked apart from valia fest cases.

Ex: - lonside the grading system of a university-

90-100: Excellent

75-89: Distilution

60-tu: First deusem

50 - 59: Second dhuren

0-49: Fail.

average of theree subjet marks are considered.

= Boundry values = { 0,1,50,99,100}

Mence, the test cases (13) mound be comidered apart from valid terteager.

WHITE- BOX TESTING:

- It is a may of teeting software in which the series has knowledge about internal structure / code of the software.
- It is mostly done by s/10 developer. The letting tratarted after detail design document.
 - -, 9+ i the most the consuming and mand atony to have knowledge of programming,
 - 4 one sum technique usedé condition conerage: In this behingue an individual and must be consid as shown the following example

(2) 8 (x==0 11 4==6)

(8) levent 101

The Long Conditions: X==0 & Y==01 now test there Conditions get TRUE and FALSE as their values, one possible example could be:-

T(1: X=0,4=55 T(2: X=5,4=0

(9iver-7) Define an example number social and political factors may enfluence system requirement. Explain why there factors are impt. In example.

Aug-7) the example of stock market and exit poll zystem is stock market zystem

3 social factors

A Moually stock morblet is maintained through the dealings

* There we can say that social factors (contourous) affect the Stock market.

Politica factors

* In case of any emergency / pandenii, the government can ease control of the share market,

* Thurs, ene can say that it is allested by political factors.

Exft poll system social factors

A The data is collecting by surging voters for this oppision across a vant region.

Then it can be said that it is apperted socially Politice factors

* The agency conducting the exit-pool may be bissed (politically).
* Hence it could be said that it is alleved politically.

(d) Do une really need maintenance. It yes then que just fication Ans: - Yes, software maintenanne i required prended because office following Ireason.

* Bug fexing

> Bug flying comer at a provinty to tun the sew scamlenty.

> The process contains sewen out for exerts in water and correct
them.

-> This must be done suffront hearting new of the functional ties of existing softwee

* Capablify Enhancement

- -3 The comprises Purpovement in features and fugacts one to make solution compablible cutte variefing manket environment.
- -> It enhances software platform, with patterny hardware upgrades, compiles of an other aspect that affect sylen healthou.

* Renoval of Octobated functions

- -, The conmoused functionalltes are eye less. Novemen, by occupying space to software, they hurt efficiency of the sho.
- , The s/co maintenance produces, som element of DI 4 Coding ore removed and explaced with new development using latest tools and technologies. The make the system adaptive to cope with changing concumitances.

of To Purpose squesty of system.

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d'a mobilement læs the solution læs