SE ASSIGNMENT

1.What is Rework?

Ans: Rework in software development is the additional effort of redoing a process or activity that was incorrectly implemented in the first instance or due to changes in requirements from clients. It usually results from errors, failures, changes, poor communications and poor coordination. Organizations invest in time, money and effort in order to continuously improve software quality in the evolving business environment. Rework directly impacts the performance and productivity and ultimately the profit margins of the firm.

In all of this, we are left with the impression that, while rework activities may vary from initial activities.

So, try to avoid rework when you are developing and identifying bugs in a code.

2.Difference between Verification and Validation?

Ans:

Verification: Verification is nothing but an we are verifying the resources and needs in between the project. Verification testing includes different activities such as business requirements, system requirements, design review, and code.

we are ensuring that "**we are developing the right product or not**".

Validation: Validation testing is testing where tester performed functional and non-functional testing.

 we are ensuring that **"we have developed the product right."**

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| --- | --- |
| Verification | Validation |
| 1.Verification is the static testing. | 1.Validation is the dynamic testing. |
| 2. It does not include the execution of the code. | 2. It does include the execution of the code. |
| 3. It can find the bugs in the early stage of the development. | 3. It can only find the bugs that could not be found by the verification process. |
| 4. It consists of checking of documents. | 4. It consists of execution of program and is performed by computer. |
| 5.Methods used in verification are reviews, walkthroughs and inspections. | 5.Methods used in validation are Black Box Testing and White Box Testing. |
| 6.It comes before validation. | 6.It comes before validation. |

3.What is the Evolution?

Ans: **Software Evolution** is a term which refers to the process of developing software initially, then timely updating it for various reasons, i.e., to add new features or to remove functionalities.

The evolution process includes fundamental activities of change analysis, release planning, system implementation and releasing a system to customers.

Necessity of Evolution:

1).Environment change.

2).Errors and Bugs.

3).Security risks.

4).Change in Requirement with time.

4.RTM?

Ans:

**Requirement Traceability Matrix (RTM)** is a document that maps and traces user requirement with test cases. It captures all requirements proposed by the client and requirement traceability in a single document, delivered at the conclusion of the Software developement life cycle. The main purpose of Requirement Traceability Matrix is to validate that all requirements are checked via test cases such that no functionality is unchecked during Software testing.

5.Coding Standards?

Ans:

1). A coding standard gives a uniform appearance to the codes written by different engineers.

2). It improves readability, and maintainability of the code and it reduces complexity also.

3). It helps in code reuse and helps to detect error easily.

4). It promotes sound programming practices and increases efficiency of the programmers

Thank you Mam,

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