**Agile Methodology**

Q1.Differece between smoke and sanity?

1. Smoke Testing is performed for critical functionalities of the program is working fine.
2. The objective of this testing is to verify the “stability” of the system
3. This testing is performed by the developers or testers
4. Smoke testing is usually documented or scripted
5. Smoke testing is a subset of Acceptance testing
6. Smoke testing is used to test end to end
7. Smoke testing is like General Check Up

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| 1.Sanity Testing is done to check the new functionality/bugs have been fixed  2.Sanity testing in software testing is usually performed by testers  3.Sanity testing is usually not documented and is unscripted  4.Sanity testing is a subset of regression testing  5.Sanity testing exercises only the particular component of the entire system  6.Sanity Testing is like specialized check up  7.The objective of the testing is to verify the “rationality” of the system in order to proceed with more rigorous testing.   |  | | --- | |  | |

2.Validation and verification

**Verification**

* It includes checking documents, design, codes and programs.
* Verification is the static testing.
* It does *not* include the execution of the code.
* Methods used in verification are reviews, walkthroughs, inspections and desk-checking.
* We checks whether the software conforms to specifications or not.
* we can find the bugs in the early stage of the development.
* The goal of verification is application and software architecture and specification.
* Quality assurance team does verification.
* It consists of checking of documents/files and is performed by human.
* Verification is for prevention of errors.

**Validation**

* It includes testing and validating the actual product.
* Validation is the dynamic testing.
* It includes the execution of the code.
* Methods used in validation are Black Box Testing, White Box Testing and non-functional testing.
* It checks whether the software meets the requirements and expectations of a customer or not.
* It can only find the bugs that could not be found by the verification process.
* The goal of validation is an actual product.
* Validation is executed on software code with the help of testing team.
* It comes after verification
* Validation is for detection of errors.

Q2.Agile methodology

Agile is an interactive approach to project management and software development that helps teams deliver value to their customers faster.

Scrummage time

Scrum is the framework for developing complex product.

Describe a set of meetings, tools and roles that working jn concert to help teams structure and manage their tool

Product Backlog:

PO Explains the vision of the project during the initial stage and this evolves into a welll defined set of requirement for the project called product backlog

Sprint backlog

It is set of task selected from PB team will work.

Product owner or BA prepare the User story and epic for customer requirement

PO give the vision of the product of the team.

Manage the product backlog

Explain the Backlog

Team:

Self organized

Team Work

Scrum master

Help the team to adopt

Help to self organise

Protect the team

Scrum events

Scrum ceremonies:

Sprint Planning:

Member: SM, PO, Team

They prioritize the backlog which one is import to work in the sprint planning

Consider the factors and risk

Daily Standup meeting:

They discuss the daily status of the completion

Sprint review

At the end of each sprint

Demo the work

Retrospective:

Daily meeting 1 hour

What went well /didn’t

Increment:

Resultant Product of the sprint produced by completing the Sprint Backlog task

Scrum values

Focus

Commitment

Respect

Q3.Epic and User story

Epic

Epic is the greater functionality which can be subdivided into further granular units

User Story

From the end user perspective we want to write the story

Eg:

As a customer

I want to see the notification in the mobile

So that I can able to reply

Acceptance Criteria:

After completion of task to find out whether the task ids completed or not

Eg:

user able to see the notification

User able to access the notification and reply