Name: - MOHD REHBAR KHAN

Batch: - A

PG-DAC

ASDM

Assignment-1

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Date: / /
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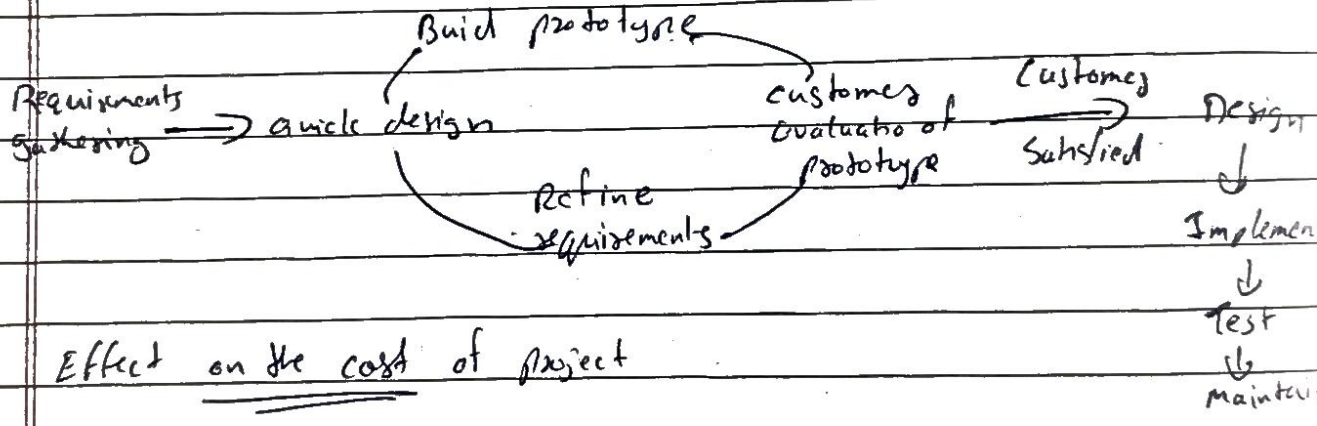
MOHD REHBAR KHAN
BATCH-A ASDM ASSIGNMENT-1 PGDTAC

Ques 1 - Discuss the prototyping model. What is the effect of designing a prototype on the overall cost of the project?

Ans-1 The prototyping model is a software development model that involves creating a preliminary version of the software product to obtain feedback from the users and to refine the requirements. It is one of the most popular SDLC model. It is used when customer do not know the exact project requirements beforehand. In this prototype of the end product is first developed tested & refined as per customer requirements repeatedly till a final acceptable prototype is achieved which forms the basis for developing the final product.



Effect on the cost of project

- Prototype model can help to identify & address potential design flaws or usability issues early in development process. This lead to cost savings by reducing the number of design iterations needed, minimizing rework & ensuring that the final product meets user needs.
- It can help to clarify project requirements and specifications, reducing the risk of miscommunication or misunderstanding btw team members & stakeholders. This can help to streamline the development process and reduce the risk of costly delays or mistake.

Ques-2 Compare iterative enhancement model & evolutionary process model.

Ans-2

Iterative Enhancement	Evolutionary process
• Requirements are gathered at the beginning of the project, and refined & updated during each iteration	• Requirements gathered at the beginning, but they are refined & updated during each release.
• Software is delivered to customer after each iteration.	• Software delivered to the customer after each release.
• The customer feedback is obtained after each iteration, and it is used to improve the software in the subsequent iterations.	• Customer feedback is obtained after each release, and it is used to improve the software in the subsequent release.
• The development process is divided into smaller iterations, where each iteration involves the development of a part of the system. The ~~repeat~~ iterations are repeated until the software is complete.	• The development process divided into multiple iterations or releases. Each release includes a set of requirements that are developed incrementally and released to customer.

Ques =3 As we move outward along with process flow path of the spiral model, what can we say about software that is being developed and maintained?

Ans =3 • Software becomes more complex and functional :- As each iteration of the spiral model progresses, more features and functionality are added to the software, making it more complete & functional.
• Software becomes more stable :- Each iteration of the spiral model includes testing & validation of the software, which helps to identify & eliminate defects & make the software more stable.
• Software becomes more complex :- As more features and functionality are added to the software, it becomes more complex, which make it more difficult to maintain and modify.
• Software becomes more aligned with users needs :- The iterative nature of the spiral model allows for ongoing feedback from users & stakeholders which helps to ensure that the software is aligned with users needs and requirements.
• Software becomes more expensive to change :- As the software becomes more complex & complex, making changes to it become more expensive & time consuming.

Ques-4 Explain the Scrum Agile methodology ?

Ans-4 The Agile Scrum methodology is a project management framework used to develop & deliver software products iteratively & incrementally. It is based on the agile principles & values and is widely used in software development projects.

Scrum methodology involves a team of individuals working together to deliver a product in short, iterative cycle called sprints.

A Sprint typically lasts for two to four weeks. & begins with a sprint planning meeting. where the team identifies the goals and objectives for the Sprint & selects the tasks to be completed.

During the sprint, the team daily stand-up meetings to discuss progress & any obstacles that may arise. At the end of the sprint, the team conducts a sprint review to showcase the completed work to stakeholders.

The Scrum framework is built around three key roles :- The product owner, the development team & the Scrum masters.

product owner is responsible for defining the product backlog & prioritizing the work. The development team is responsible for delivering the work & meeting the Sprint goals.

The Scrum master is responsible for ensuring the Scrum framework is followed and facilitating communication & collaboration within the team.

Ques-5 Explain the Utility of Kanban CFD reports.

Ans-5 CFD is a graph that shows the number of work items in different stages of a process over time. It typically has a horizontal axis that represents time & a vertical axis that represents the number of items. The CFD can provide valuable insights into how work is flowing through the system. Where bottlenecks may be occurring & how long it takes for work to move through the different stages of the process.

Kanban CFD reports useful in following ways:

- Visualizing workflow
- Identifying process improvements.
- Predicting delivery dates.
- Monitoring progress.