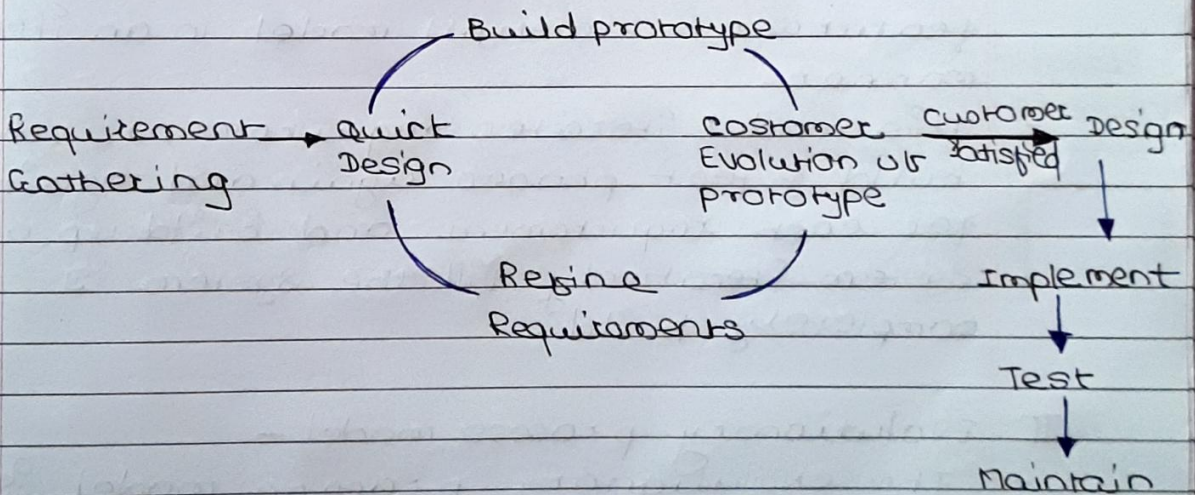Q.1. Discuss the prototyping model. What is the effect of designing a prototype on the overall cost of the project?

The prototype model is one of the software development life cycle. In which prototype is built with minimal requirements.

This prototype model is submitted to client for feedback. then based on the user feedback & client Requirement are refined. This cycle is continue until customer satisfaction then further process is run like classical waterflow approach.

Build prototype

Requirement Gathering → Quick Design

Customer Evolution of Prototype

Customer satisfied → Design

Refine Requirements

Implement

Test

Maintain

Effect of Designing a prototype on overall cost of software project –

- Prototyping may have some initial costs of developing, but it reduces the overall budget by helping your product to be free of errors of glitches that could have occurred. the idea was made from scratch

without any prior user testing.

If prototyping process is ignored, it might result in restructured & redesigning of product after spending all your resources on its development.

Q.2 Compare iterative enhancement model and evolutionary process model ?

I] Iterative Enhancement model –
- It is an approach to build software in which the overall lifecycle is composed of several iterations in sequence.
- The incremental model (also known as iterative enhancement model) comprises the feature of waterfall model in an iterative manner.
- This model iterates requirements, design build & test phases again and again for each requirement and build up a system iteratively till the system is completely build.
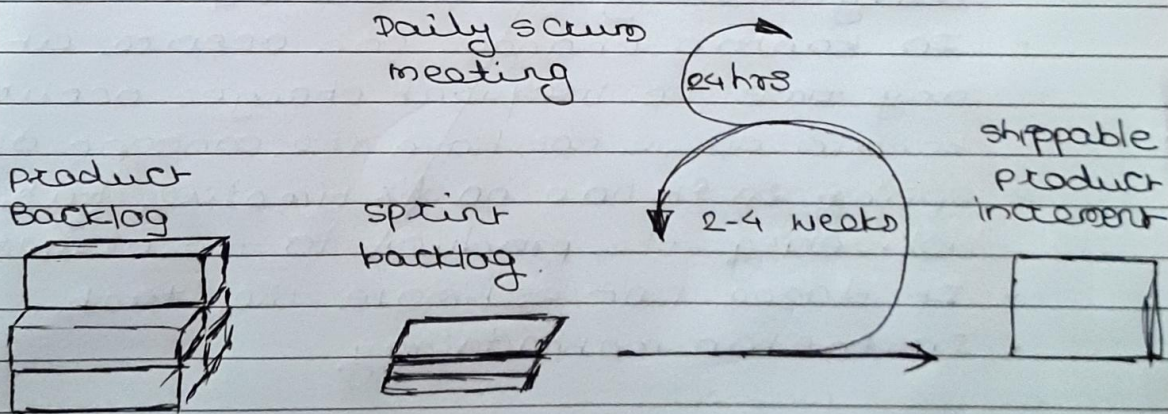
II] Evolutionary process model –
- The evolutionary process model is design to be allowed to evolve in response to the customer feedback.
- Evolutionary Iterative development implies that requirements, plan, estimated & solution evolved or are refined over course of iteration rather than fully frozen.

Q.3. As we move outward along with process flow path or the spiral model, what can we say about software that is being developed or maintained?

sol^n As work moves outward on the spiral, the product moves toward a more complete state & the level of abstraction at which work is performed is reduced. The spiral of a project is active until the software is retired.

Q.4. Explain the scrum Agile methodology.?

Daily scrum meeting

24 hrs

shippable product increment

product Backlog

sprint backlog

2-4 weeks

- Agile method is based on an iterative approach to software development.
- It evolves quickly to meet changing requirements.
- Agile methods are best suited to small medium sized business system or PC products.
- Agile methodology is^(or) people based rather than plan based.

- The customer should be closely involve throughout the development process.
  Their role is provide and priaritise new system requirements and to evaluate the iteration of the system.

- The software is developed in increments with the customer specifying the requirements to be included in each increment.

Q5 Explain the utility of kanban CFD reports?

Ans CFD stands stands for cumulative flow diagram will share how stable is your flow. Cumulative flow diagram is one of the most advanced kanban and agile analytics charts, it provides a visualization of the three most important metrics of a flow.

- Cycle time
- Throughput
- Work in progress

- It main purpose is to show you how stable your flow and help to understand where you need to focus on making your process more predictable.

- Also CFD is tool that lets teams visualize the progress of their projects. Teams can monitor the flow of work through its stages and gives the user the ability to predict blockers or disruptions the progress of work

- CFD is benificial to teams as it provide a clear visualization of work flow & understa -nding into how project are progressive areas or concern are easily identify this as the diagrams widen or narrows, when a problem area is easily detected changes can be made so that work can continue efficiently.

- CFD can also shows the total amount of work in progress & how quickly project are being completed.