## component Diagram

component diagrams are used to represent the show the Physical components in a system chave been organized.

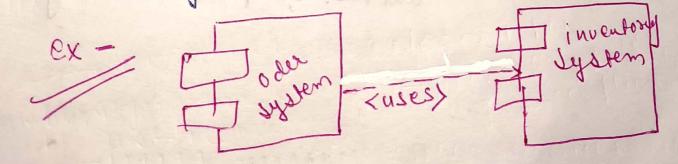
- owe use them for modelling implementation détails.
- o component Diagrams depict the Structural relationship between software system elements and shelp us in understanding it functional crequirements shave been covered by Planned development

we design and build complex system

communicate with eather each other.

· component diagram are used to visualize the organisation and welationship among components in a system.

· These diagram use to make execuatable system



Motation wed in component No. -> denote component component represent modular part of a replem. A component definer its behaviour in terms of Provided and viegured interfaces denote Pakage 08 Mes cases and component did not build comply \_ optional 77 one component will make to another component to other me the Sometimes means optional Huens dinas boar another component always (( ))

Now the question is what one there physical aspects?

Physical aspects are the elements such as executables clibraries files documents cte.

## Purpose of component diagrams

Component diagram is a special kind of of diagram in uml. The Purpose is also different from all other diagrams discussed so for.

• It does not describe the Junctionality of the system but it describe the components used to make those Junctionalities

Thus from that point of view components diagrams are cited to visualize the physical components are dibraries in the system. These components are dibraries package files etc.

of single component diagram cannot represent the entitle system but a collection of eliagrams is call to represent the whole

The purpose of component diagram can be Illimarized as: visualize the components of a system. Construct executables by using yorward and reverse engineering Describe the organization and violationships of components. Before drawing a components diagram the following orlifacts are to be identified releasely. o elibraries and other artificats vulevant to the application Relationships among the artifacts. Component d'agramise can be used to-· Model the components of a system · Model the database rehema Model sue execustables of an application 5 model the system's source code

