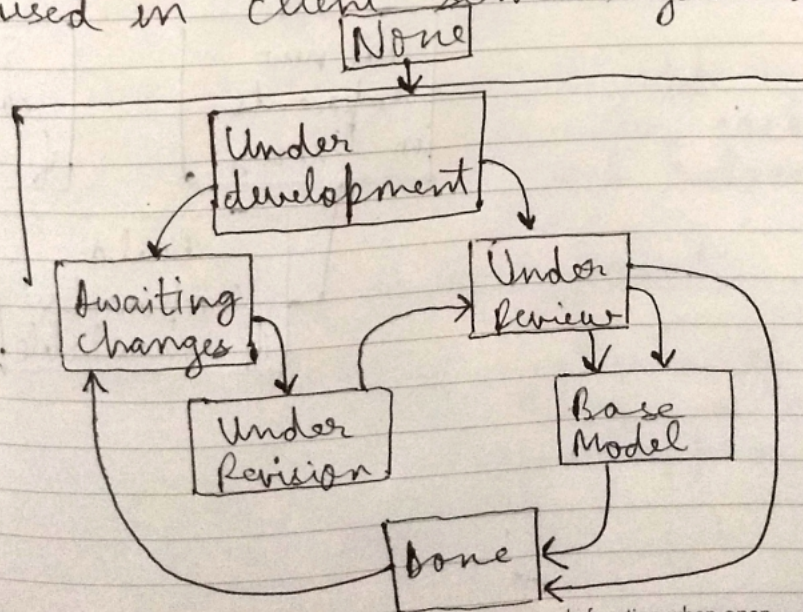


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Date: 1/10/20
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Concurrent Development Model

- States are defined in the software development lifecycle.
- States may change over a period of time.
- State is some extremely observable mode of behaviour.
- A state will have characteristics.
- This software development model is generally used in client server systems.

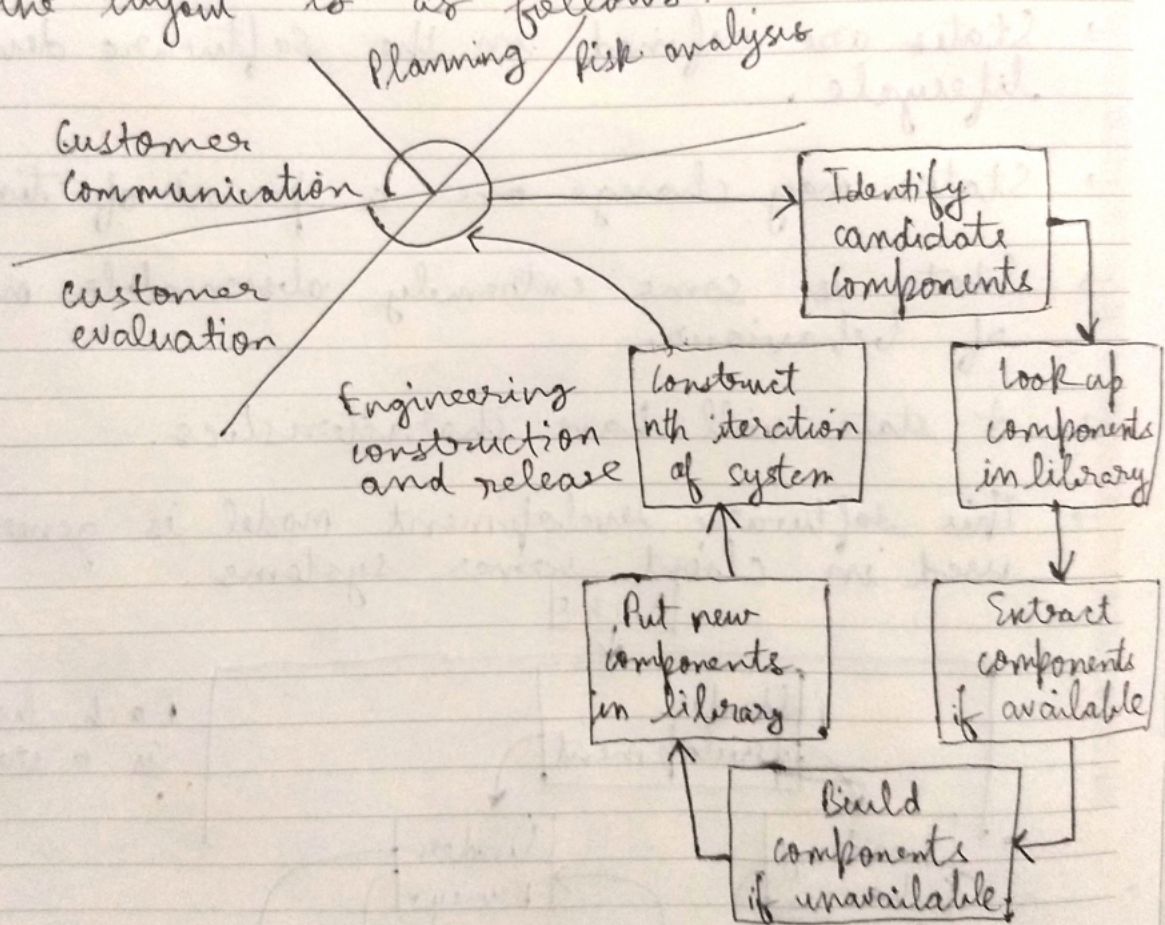


Each box is a state

Minds are like parachutes - they only function when open.

→ Component Based Model

→ It looks into greater detail at the engineering and construction phase and the layout is as follows:



When spider webs unite. They can tie-up a lion.

Concurrent Development Model

- This model is used as paradigm for development of client / server apps.
- Defined system and component dimension.
- System level issues are addressed using three activities: design, assembly and use.
- Component dimension is addressed with two activities: design and realization.
- Concurrency is addressed in two ways
 - a) System and component activities occur simultaneously and can be modelled using state oriented approach.
 - b) Typical client/server app is implemented with many components, each of which can be designed and realised concurrently.

Component Based Development

- Incorporates many features of the spiral model. It is evolutionary in nature, demanding an iterative approach to the creation of software.

Give them what they want that puts a smile on the face of a customer.

→ Composes applications from prepackaged software components called classes.

→ Engineering activities begin with the identification of candidate classes.

→ The class library is searched to determine if those classes already exist.

→ If a candidate class does not exist in the library it is engineered.

→ If it exists they are extracted from library and reused.

This CBD model leads to software reuse and reusability and provides software engineers with a number of measurable benefits.

Component Assembly leads to 70% reduction in development cycle time.