development Software Life Cycle models S/w Development Stages/Phase Water fall model:- Classical Waterfull Model
- Ituative waterfall model - Feasibility study - Requirements Analysis & specification - Design
Lis Conceptual / System Design
Lis Detailed / Program Design F- Atockel Knoto typing Mudel Phased Development model - Implementation / Colling - Incremental Model - Unit of Intiguation testing - System testing/vahidation Spiral Model: - Syctem Delivery / Deployment CLASSICAL WATERFALL MODEL (Theoratical model) Fearibility study - Leg Analysis - Levign - Linear sequential life cycle model ... to Phase by w Franibility and Amoung volerely poment phases, thating consumes the effect. Maintenance Among all Life Cycle phases Maintenance phase Consumer maximum effort

| Nok! DThis model idoesn't work well if flexibility is needed on if the project is dong term round ongoing.   |   |
|--|---|
| 1 Feasibility Shudy :  | D |
| * Determine whether developing the product  - Einancially worthwhile   | - |
| - technically feasible.  | · |
| * Roughly Understand what the Customer wante:  - different what which would be input to the System  - processing needed on these data  - Output add to be a feeded on the second to the system |   |
| - processing needed on these data  - output data to be preduced by the system.   |   |
|  |   |
| * Work out an Overall understanding of the problem  * Formulate chifferent solution strategies. Note: This model  dike: * Resources required,  * Cost of clevelopment                          |   |
| * volavelopment fine   |   |
| 2 Requirement Analysis and specification; - " collect all related whata from customer  |   |
| + Atm of this phase: understand the exact suguirment of the customer - valocument them properly.   | 5 |
| + Troc distinct activities are performed:  1) Reg gethering round Analysis 2) Reg Seperficiation (ses)   |   |

3 Dosign 3-\* Design phase transforms Requirement sperification into a suitable form for implementation in some programming Language. Software, Architecture is relevined from the SRS clocument Two design approches's

- traditional approch ('i) Stractives that sis

- Object oriented approch.

- I dentify various objects occurring in the problem.

Ly n Relationship among objects

C. C. I We shirt in a my -roll S/w may be Structured Deorgo > Detailed Design 405 talgo for Ex? - the object in a pay -isl S/w may be > Employers > managers, > paywell register > repartments etc. Implementation / Cooling: \* Translate sto designs into Source Code.

Us Each module of the design is coded, and unit tegted.

Us Each module is advisor with

Iterative waterful model: (Redback path.)

[F. J. Reg Analyse]

[Deorgy]

[D System of M3 My M3 My Integrated testers

My M3 My M3 My Integrated

M3 My M3 My M3 Integrated Goal of System testing! - Ensure that the dwelped system functions rawarding to its Requirer 6 Maintenance:

\* Corrective maintenance: Correct two which were not reliscovered relining the product development phases. \* Perfective maintenance: - Improve implementation of the system.
- Enhance the functionalities of the system. \* Adaptive maintenance: - Port s/w lo a new Environment,

ty: to a new computer or to a new operating System

Classical Materfall model - Application Some Situations where the use of waterfall model is most Requirement one very well documented, clear com fixed.

Product elefinition à stable. Technology is undentood and is not dynamic (Static) There are no lambiguous Requirement. Ample Resources with required expense are available to support the product. Pre project is short. TTERATION MODEL - APPLICATION Stevential model is most appropriate as.

Some Stration, where the use of water fall model is most appropriate as.

Requirement of the Complete System are clearly defined and understant. Is Major requirement must be defined, however, some exhancement may evolve with time. A new technology is being used would is being deant by the development team while working on the project.
There are some high-risk features and goals which may change in the future.