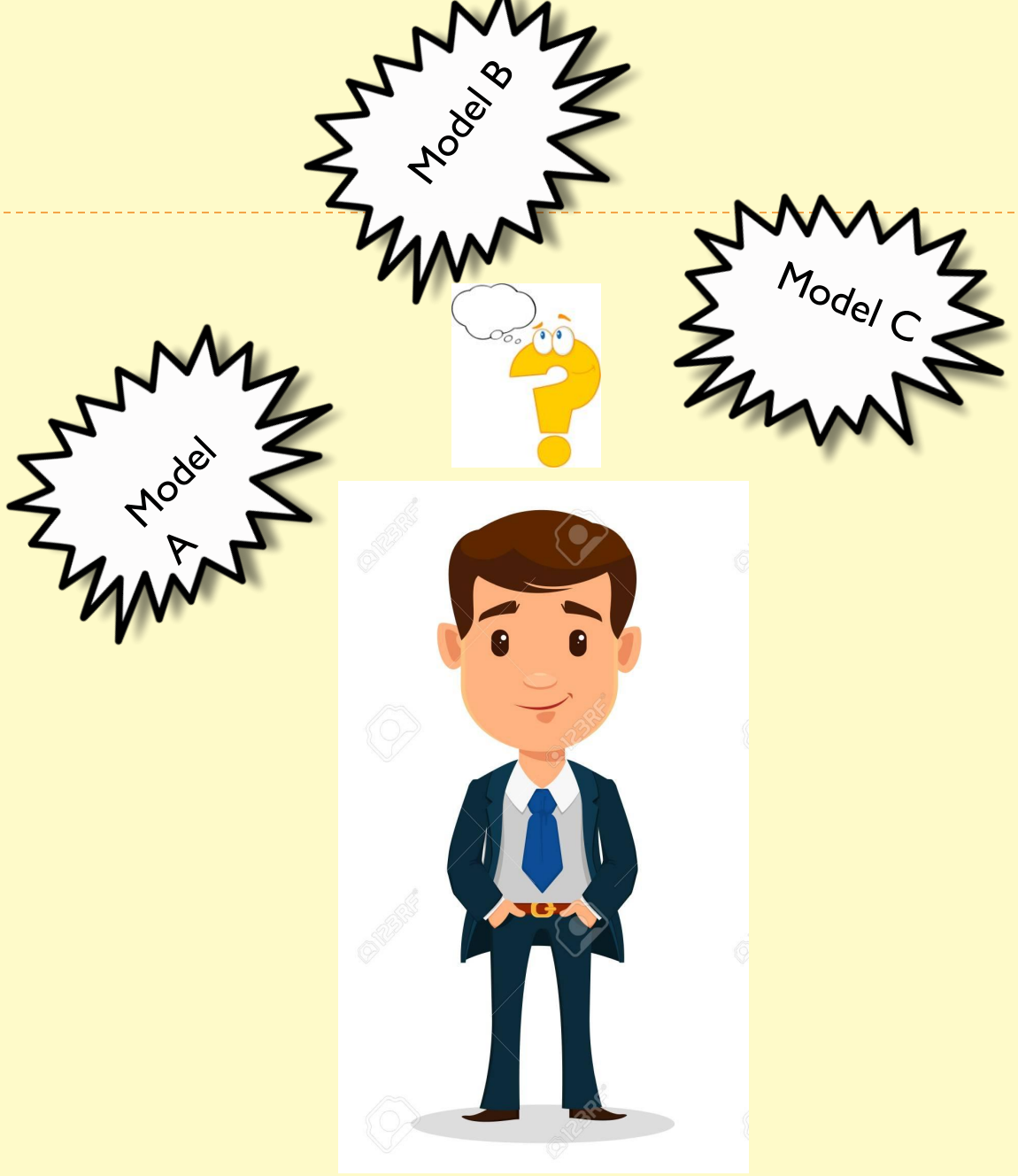
CSE 470 – Waterfall Model

BRAC University

Team Lead



We know What we Want

Small Customer Base

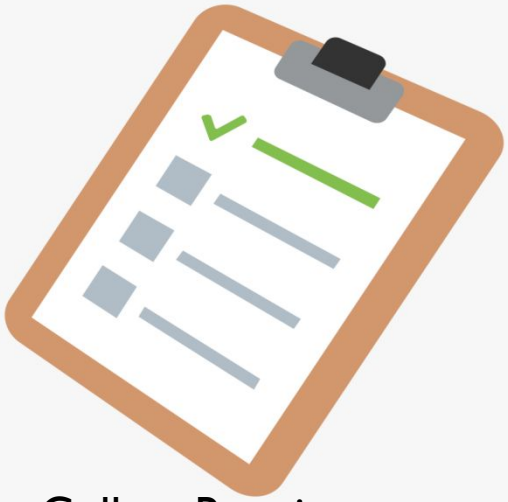
Waterfall Model

- A sequential methodology for software project management.

Requirement Collection

Client Meeting

It starts with the concept about what the customer wants to do.

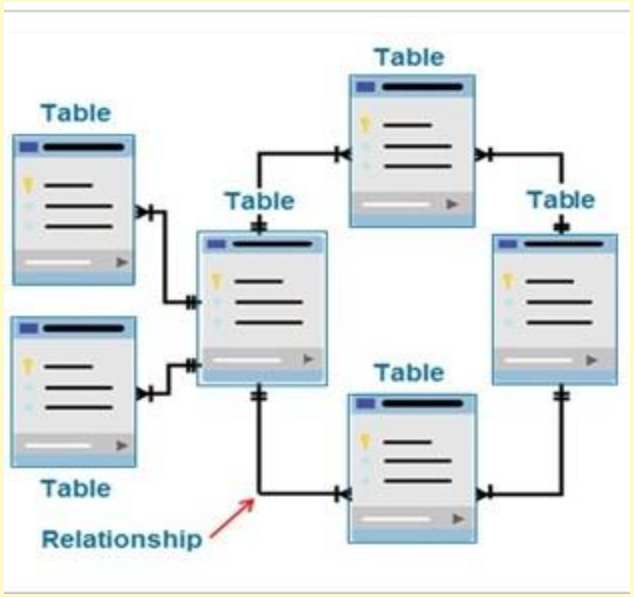


Collect Requirements

1. Address the problem
2. Identify the feasible and non-feasible requirements
3. Identify how the software will meet the customer requirements

APPROVED

Design



Creates the logical and physical design of the software project

APPROVED

Coding

1. We need to build it first
2. Coding can not start until design is fixed properly
3. Starts with converting the design in actual running software.
4. The design is spilt into blocks, and blocks are converted to code modules on after another.

APPROVED

Testing

1. Check the software against the requirements set at Requirement Analysis Phase.
2. In case of any problem, that problem is fixed in the code.

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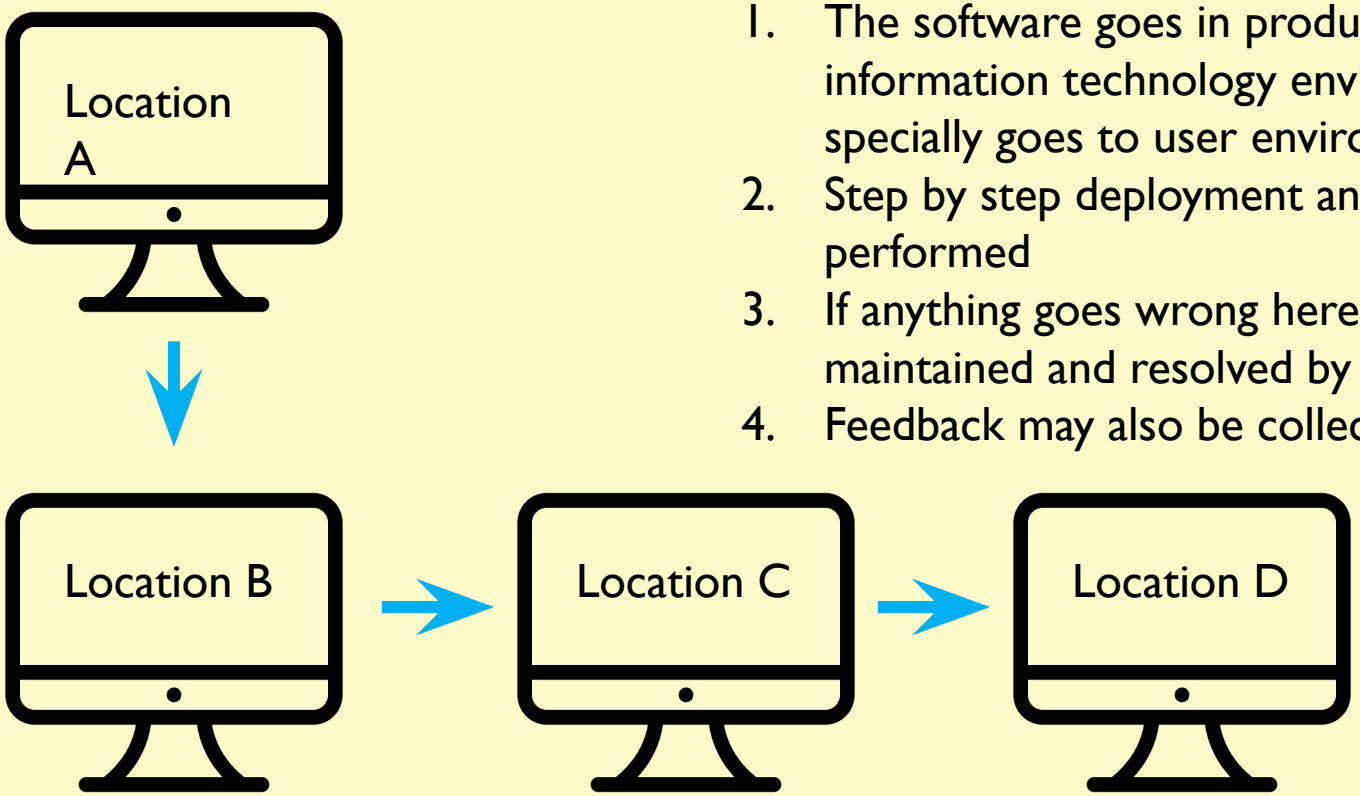
Deployment and Maintenance



1. The software goes in production in actual information technology environment, specially goes to user environment.
2. Step by step deployment and maintenance performed
3. If anything goes wrong here will be maintained and resolved by the team.
4. Feedback may also be collected

When to choose Waterfall Model

Requirements are well known

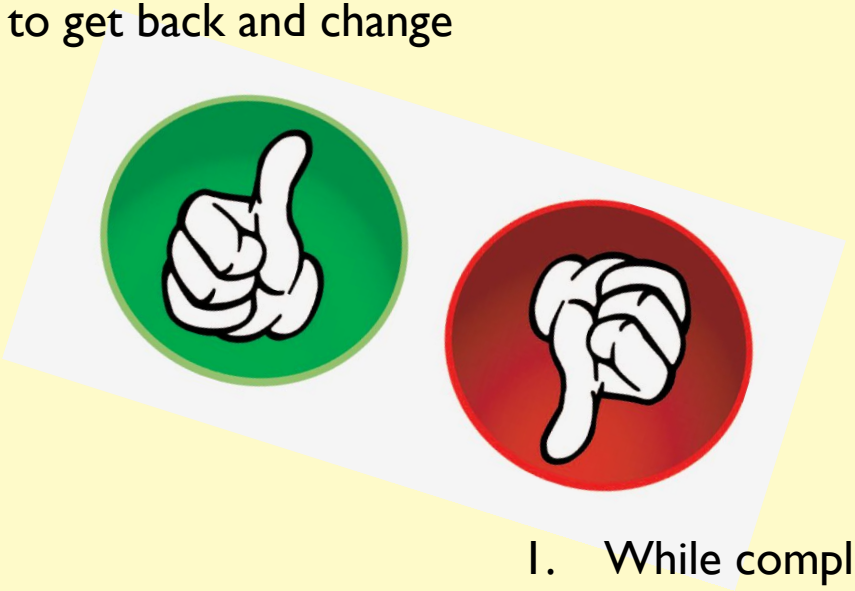
Small scale and short term project

Resources are available and trained

Technological tools required are not dynamic, instead are stable

Advantages & Disadvantages

1. Simple to Use and Easy
2. Stages go one by one, so sudden changes can not create confusions
3. Any changes is done only in Development stage, so no need to get back and change everything.



1. While completing a stage, it freezes all the subsequent stages.
2. No way to verify the design
3. Once in testing phase, no more features can be added
4. Code Reuse not possible

Example Case

1. One of your uncle requested you to develop an accounting calculator for his local shop.
2. Your start-up company wants to develop an accounting calculator for super shops.

Will you use Waterfall model for both Case 1 and 2 ?