Software Testing Mentor

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ISTQB Foundation Level and Software Testing Training

Module 2
Testing throughout the software life cycle

Session 1- Software Development Models

Testing throughout the software life cycle

- Testing is not a standalone activity, it does not exist in isolation
- Testing has its place in SDLC
- The selection of software development model decides how testing will be organized
- There are different test levels in SDLC

Software Development Models

There are different software development models

Some development methodologies are lightweight and fast methodologies and some are more controlled and fully documented

Development model defines what, where and when of our planned testing.

The way testing is organized must fit the software development life cycle

In every development cycle verification testing and validation testing is done

Verification vs. Validation

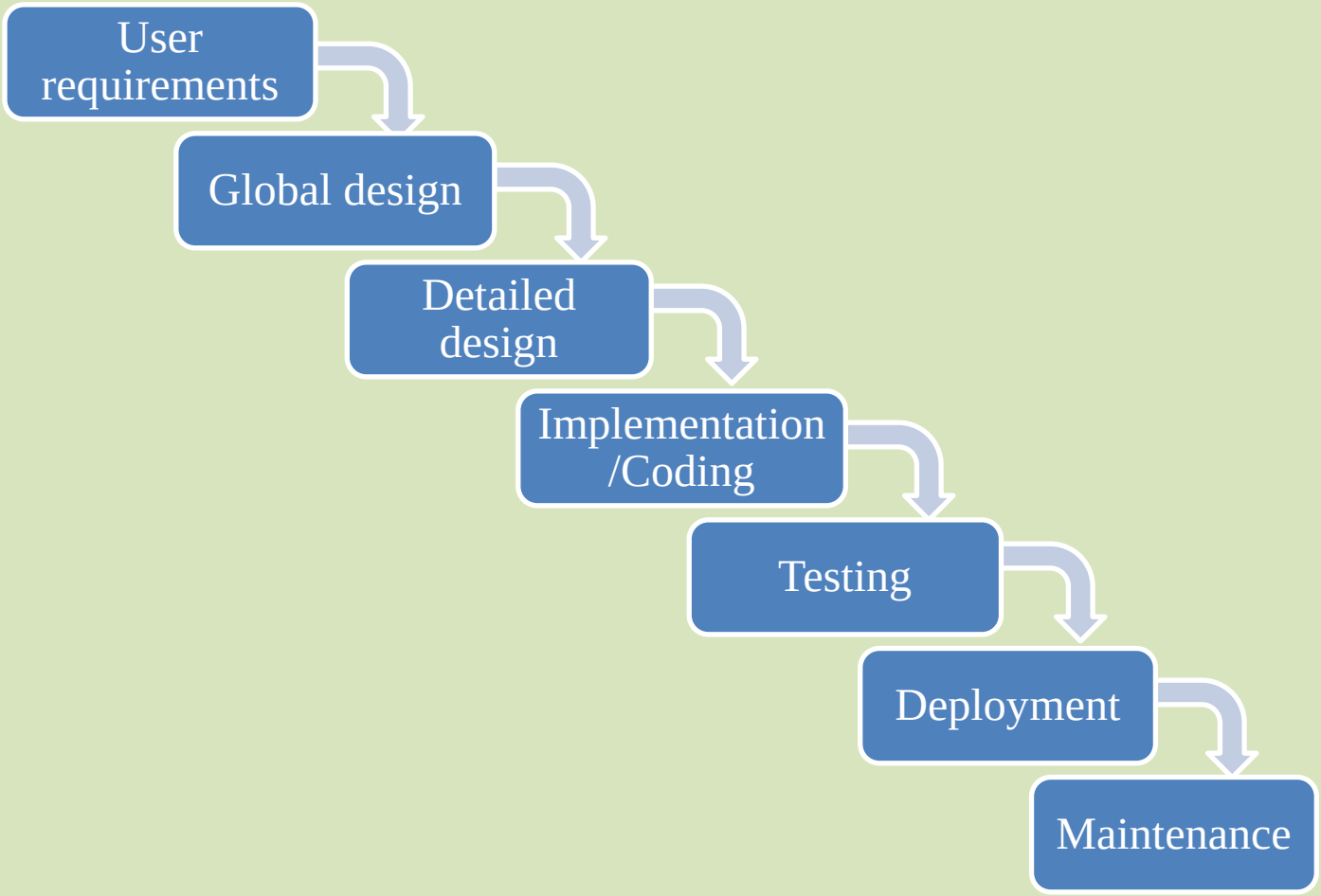
Verification is concerned with evaluating a product to determine if it meets the requirements

Verification answers a question – Is the deliverable built according to the requirements specifications?

Validation is concerned with evaluating a product to determine if it meets the end user needs

Validation answers the question – Is the deliverable fit for purpose?

Waterfall Development Model



V- Model

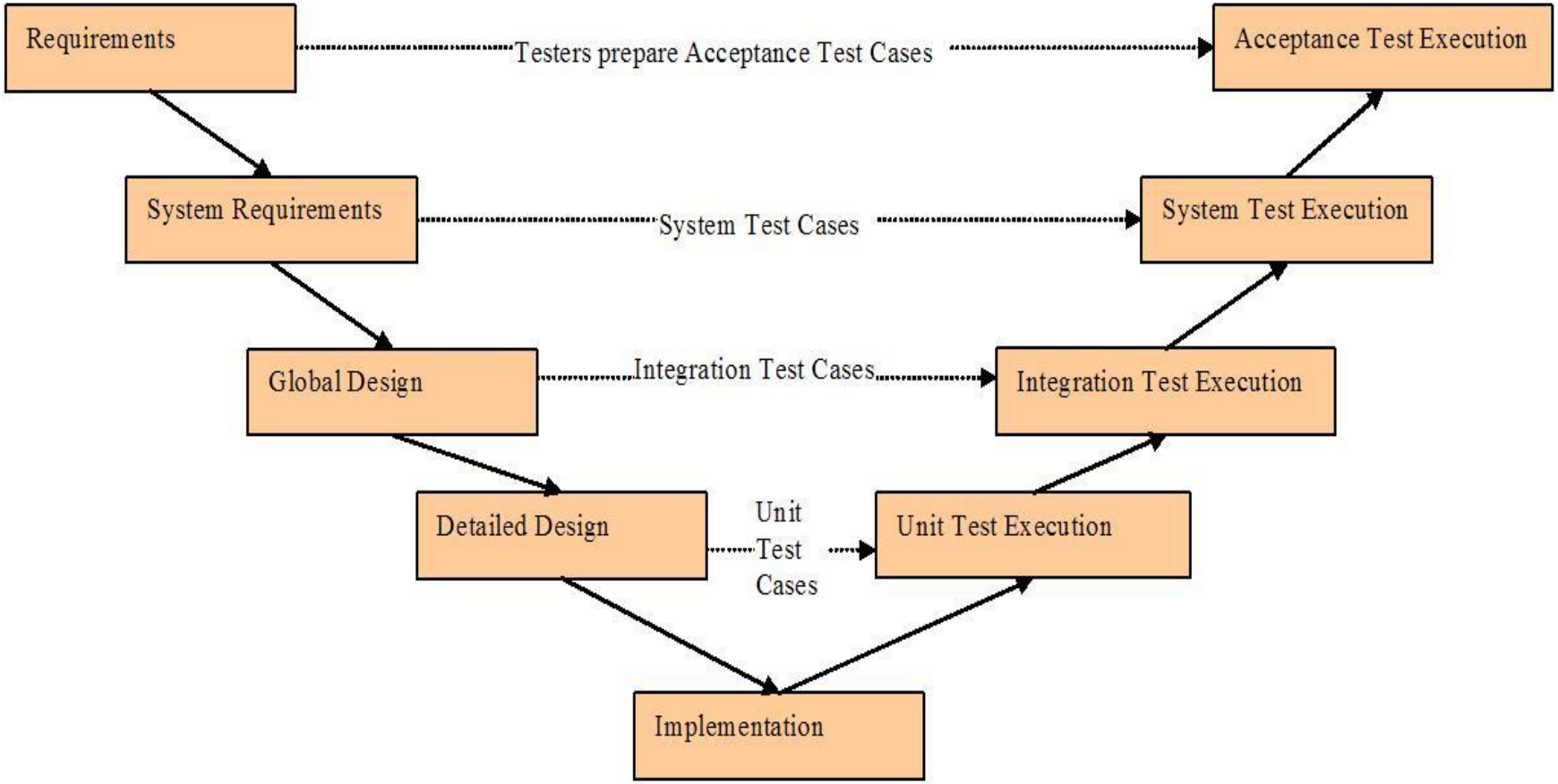


Figure 2: V-Model

Iterative Development Model

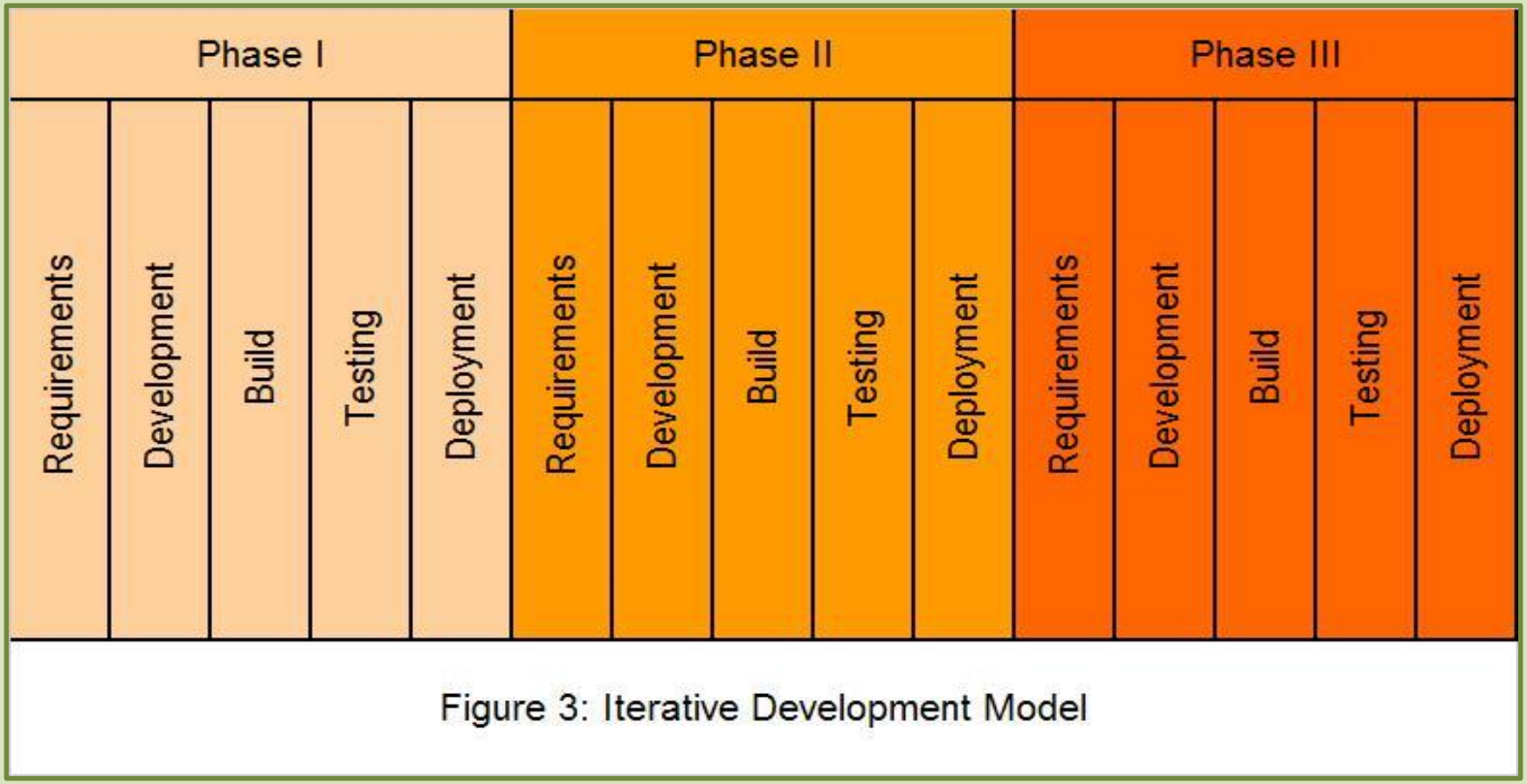


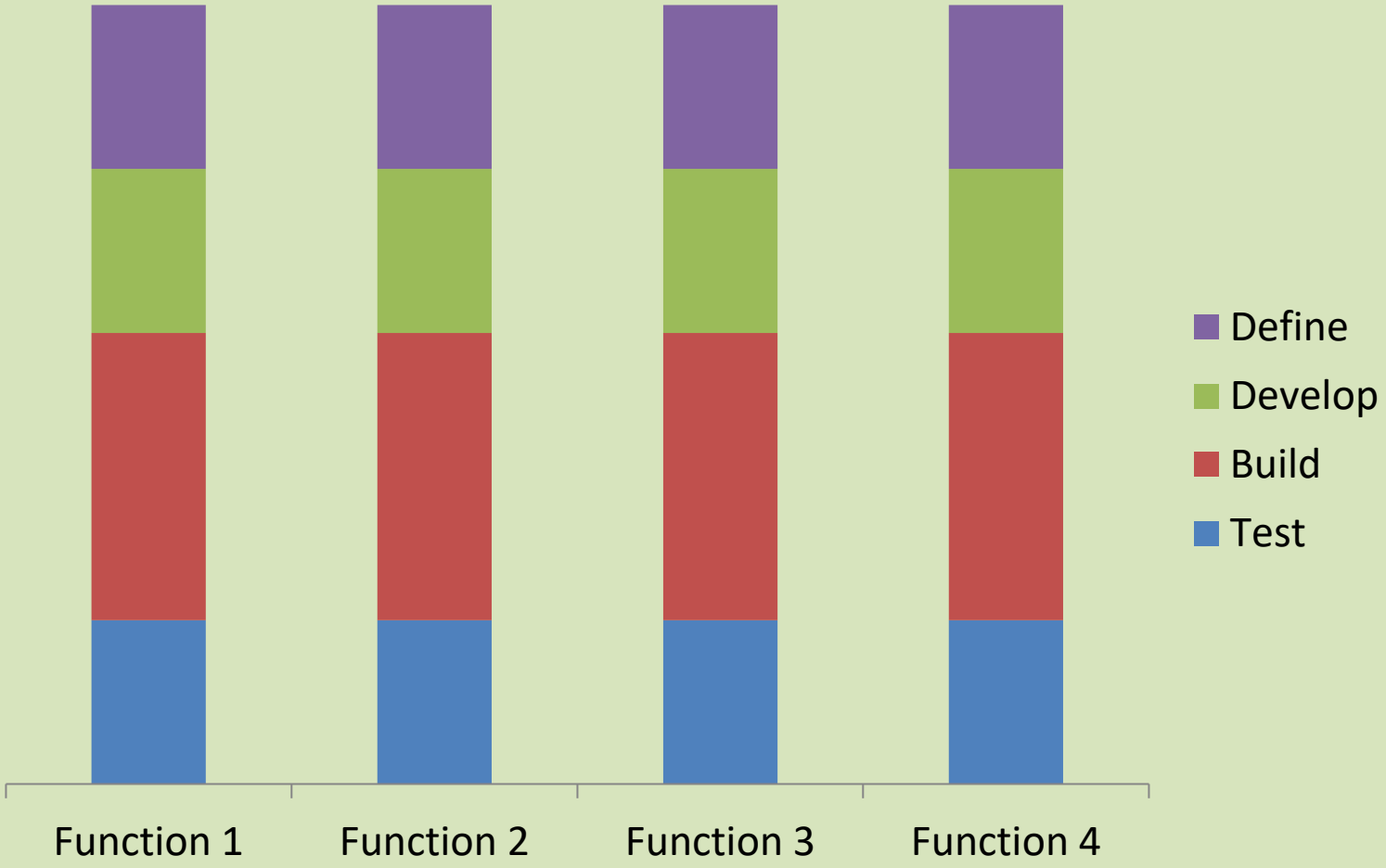
Figure 3: Iterative Development Model

Iterative Development Model Cont.

Few examples of Iterative development model

- Rapid Application Development
- Agile Development

Rapid Application Development



Agile Development

The capability of rapidly and efficiently adapting to changes is known as agility.

- The purpose behind developing agile development methodology was to have agility which was missing in traditional development models.
- Agile software development is based on iterative and incremental development.
- Agile methodology uses continuous stakeholder feedback to produce high quality consumable code through use cases and a series of short time-boxed iterations.

Conclusion

In this session we learned about different software development models

- Waterfall development model
- V-Model
- Iterative development model
  - Rapid application development
  - Agile development methodology

Thank You!!!