

ITP2200

Introduction to Software Testing

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Lecture 7

Integrating testing in the software development process

- the practical bits -

Software Development Process

Quick primer on how software development works:

1. Requirements analysis and specification
2. System and software design
3. Intermediate design
4. Detailed design
5. Implementation
6. Integration
7. System deployment
8. Operation and maintenance



Test Process



Quality

- At all the levels presented there!
- At each step – there are activities that can improve quality, and support or enable better testing
- It's not just code being assessed!

Beizer levels



More thought-out,
More deliberate,
More long-term

Level 0 - There's no difference between testing and debugging.

Level 1 - The purpose of testing is to show that the software works.

Level 2 - The purpose of testing is to show that the software doesn't work.

Level 3 - The purpose of testing is not to prove anything specific, but to reduce the risk of using the software.

Level 4 - Testing is a mental discipline that helps all IT professionals develop **higher quality software**.



Høyskolen
Kristiania



Questions so far?

Practical Considerations



And now:

- Going through the software development process
- On an actual example
- With thoughts and reflections
- Feel free to ask questions, and discuss the topic at hand, as we move through the topic
- On to the live coding!

Exercise for the Seminar



Rooms:

- A3-01
- A4-01
- A4-03
- A5-18