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Module 1

Software and Software Engineering

▼ What are some categories of software?

- system - programs that service other programs

- application

- engineering/scientific

- embedded

- product-line

- web/mobile

- AI

▼ What is software engineering?

- a systematic, disciplined, quantifiable approach to software development and maintenance

- it is the application of engineering to software development

▼ What is a software engineering process?

- a model chosen to manage the development of software

- e.g. iterative approach

▼ What are some examples of software development problems?

- Inaccurate understanding of end-user needs

- Inability to deal with changing requirements

- Modules that don't fit together

- Software that's hard to maintain or extend

- Late discovery of serious project flaws

- Poor software quality

- Unacceptable software performance

▼ What are some software development best practices?

- Develop software iteratively.

- Manage requirements.

- Use component-based architectures.

- Visually model software.

- Verify software quality.

- Control changes to software.