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Module 1.3 Assignment: The History of DevOps

Due 8.17.25

The History of DevOps

What is DevOps?

DevOps, or Development Operations, is

The Lean Movement

First, Lean Software Development refers to the concept of optimizing efficiency and emphasizes minimizing waster in the software development process. It started off as the Lean Manufacturing Movement from the automotive industry. Henry Ford integrated a mass production system for his company that allowed his business to fabricate and assemble components of his cars in a short span of time rather than days and weeks. The system allowed for not only swift production in manageable chunks but the components of the process can be changed with ease. Eiji Toyoda, nephew of the founder Toyoda, met with Ford to learn about the process. It was learned the process would not carry over across the seas so the two teams developed a new system of production in the late 1900s. The Goal was for faster product, lower costs, shorter lead time, higher quality, and more variety. This idea became the Toyota Production System or the Toyota Way philosophy which carried on across multiple industries. From 1991-2003 several books would coin the term Lean, that took great observations from the Toyota Way in order to develop the principles of Lean for software engineering and the development process. In brief the principles are:

1. Identify Value
2. Map the Value Stream
3. Create Flow
4. Establish Pull
5. Seek Perfection

The Agile Manifesto

The Continuous Delivery Movement

*Resources:*

IAN BUCHANAN. (n.d.). *History of DevOps*. Atlassian. https://www.atlassian.com/devops/what-is-devops/history-of-devops

Lutkevich, B. (2021, December). *What is Lean Software Development? Definition and Principles*. SearchSoftwareQuality. https://www.techtarget.com/searchsoftwarequality/definition/lean-programming

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Atlassian. (n.d.). *Lean principles: advancing DevOps efficiency*. Atlassian. https://www.atlassian.com/agile/project-management/lean-principles

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