

The Technology Value Stream

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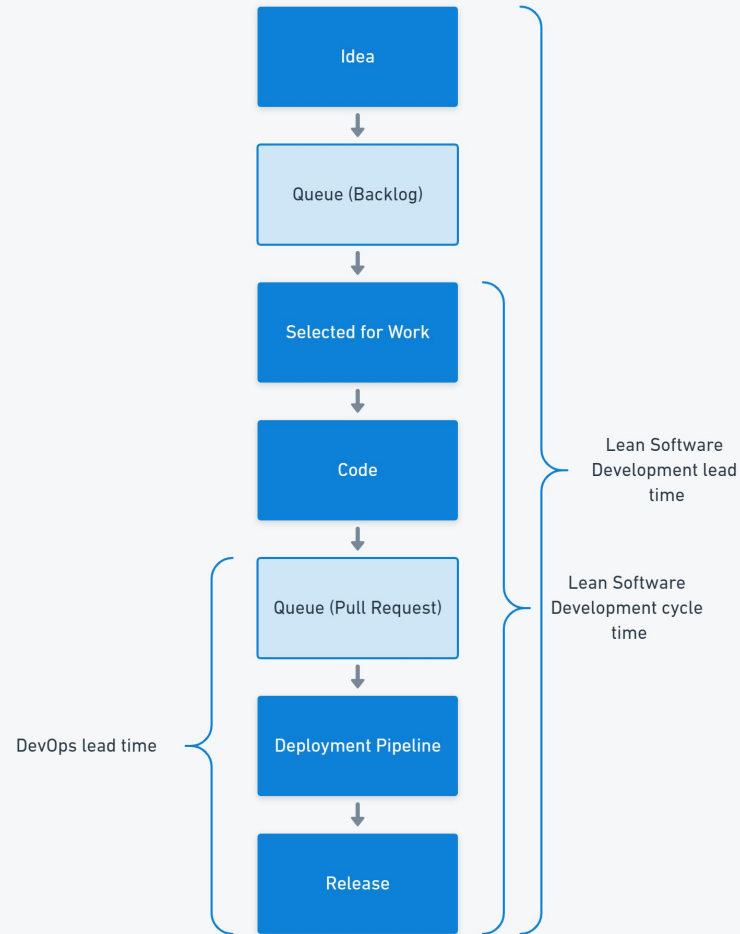
What is the Technology Value stream?

- The process that turns business ideas into software
- Done through Agile or iterative process to change ideas to user stories, then eventually a feature or specification
- Flow must be optimized and focus is on reducing inefficiencies in the system



Benefits of a good Technology Value Stream

- Better Customer Satisfaction since fixes and features are delivered fast
- Less risk as changes are smaller and more frequent
- Better efficiency and performance since developers can focus on prioritized tasks
- Quicker Feedback loop





Lead Time vs. Processing Time

- Lead time: Starts when the request is made and ends when the request is fulfilled
- Processing time: Starts when work on customer request begins and ends when the work is completed
- Customer experiences lead time so inefficiencies in lead time are where actions for improvement are mostly focused



Long Lead Times

- The common scenario is that organizations have longer lead times, especially with larger organizations working with tightly coupled systems
- Caused by various types of bottlenecks
- Fixing problems can take extended periods of investigation before fixing
- The result is a less satisfied customer or client waiting for the product due to delayed lead times of weeks or months



DevOps Ideal: Lead Time of Minutes

- The DevOps Ideal is for developers to get fast and constant feedback so they can implement, integrate and validate their code and have the code deployed into production
- Done by constantly checking small code changes into VC repository, doing automated/exploratory testing, and deploying into production
- Teams deploy consistently and independently
- Architecture should be modular, encapsulated, and loosely coupled for the best efficiency and collaboration