Professor: Nipun Batra Mentor: Tom Glint Issac



Operating System Repository Synchronization

— 01

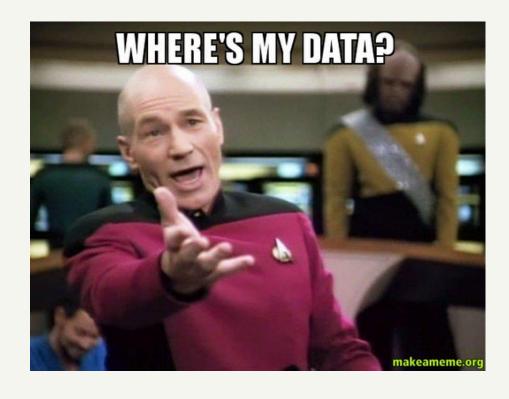
Final Presentation and Working Demo



Motivation

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- Want our data to move with us
- Work without disturbing others workflow
- Sychronize the work of every team member



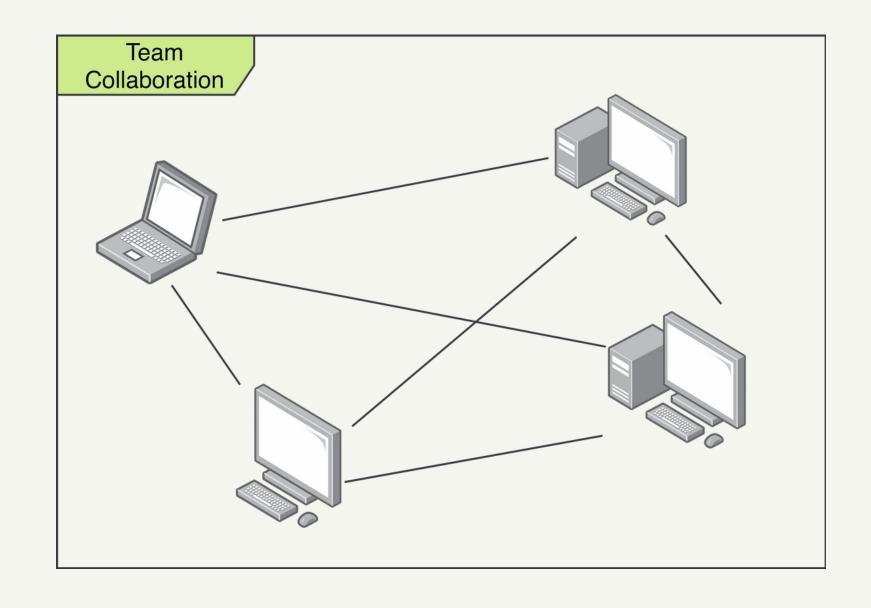


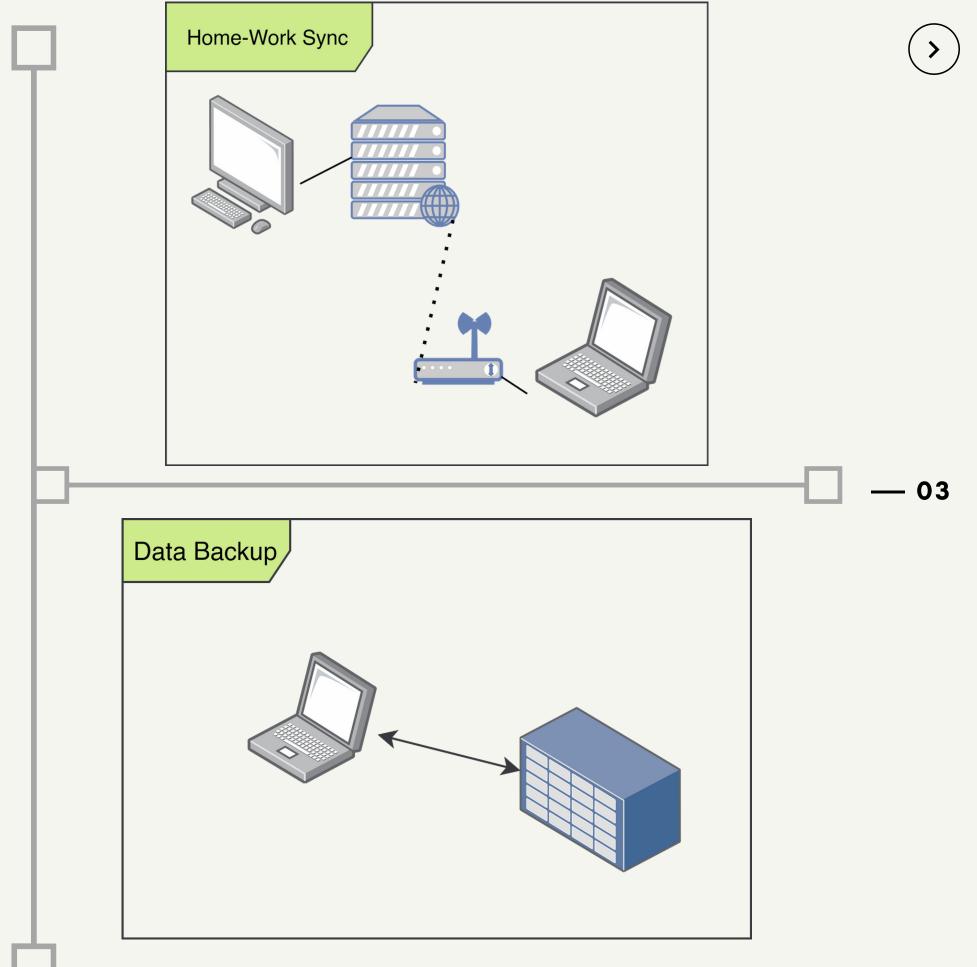


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Need of Project







Related Work









Feature Set Objectives

- Properly be able to synchronize folders
- Handle any number of users connected on LAN
- Peer2Peer mode: Decentralized system
- Low Latency
- Robust & Expandable Product

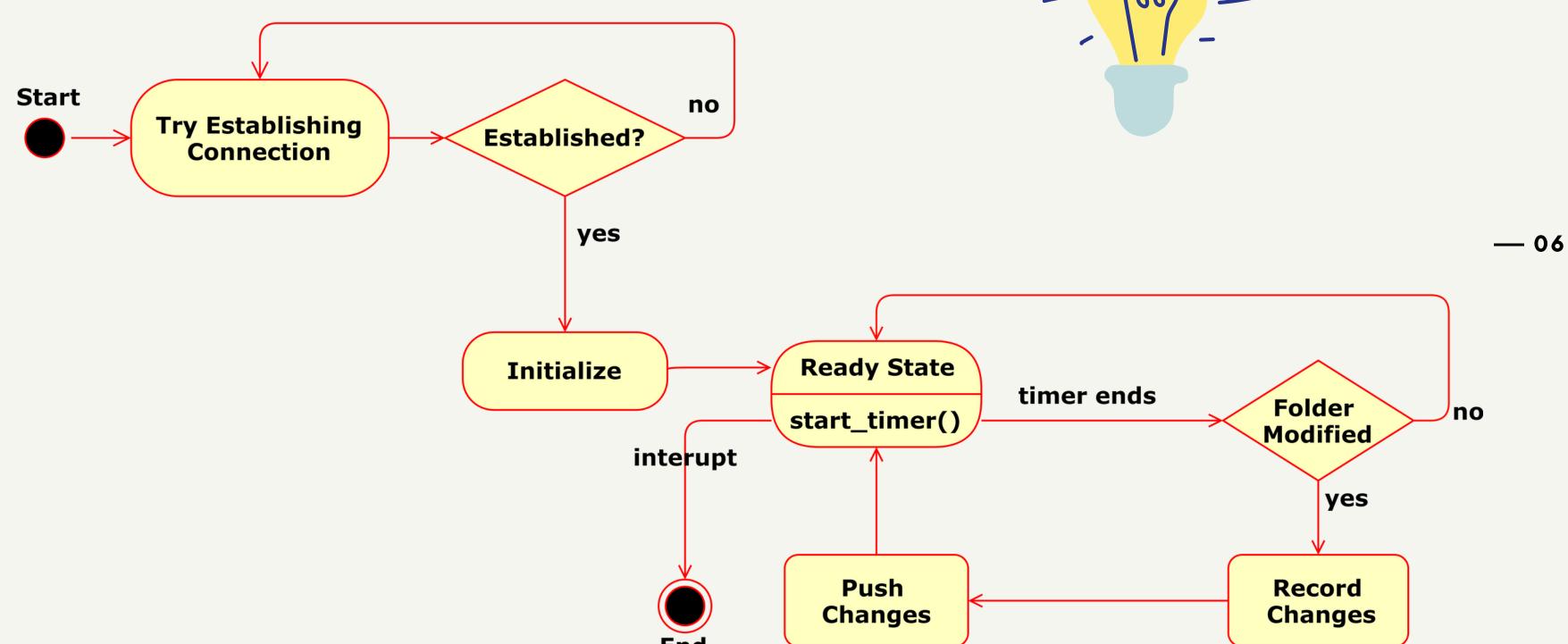
Exhibit the goals of Multi-Threading





Logic Flow Intuition



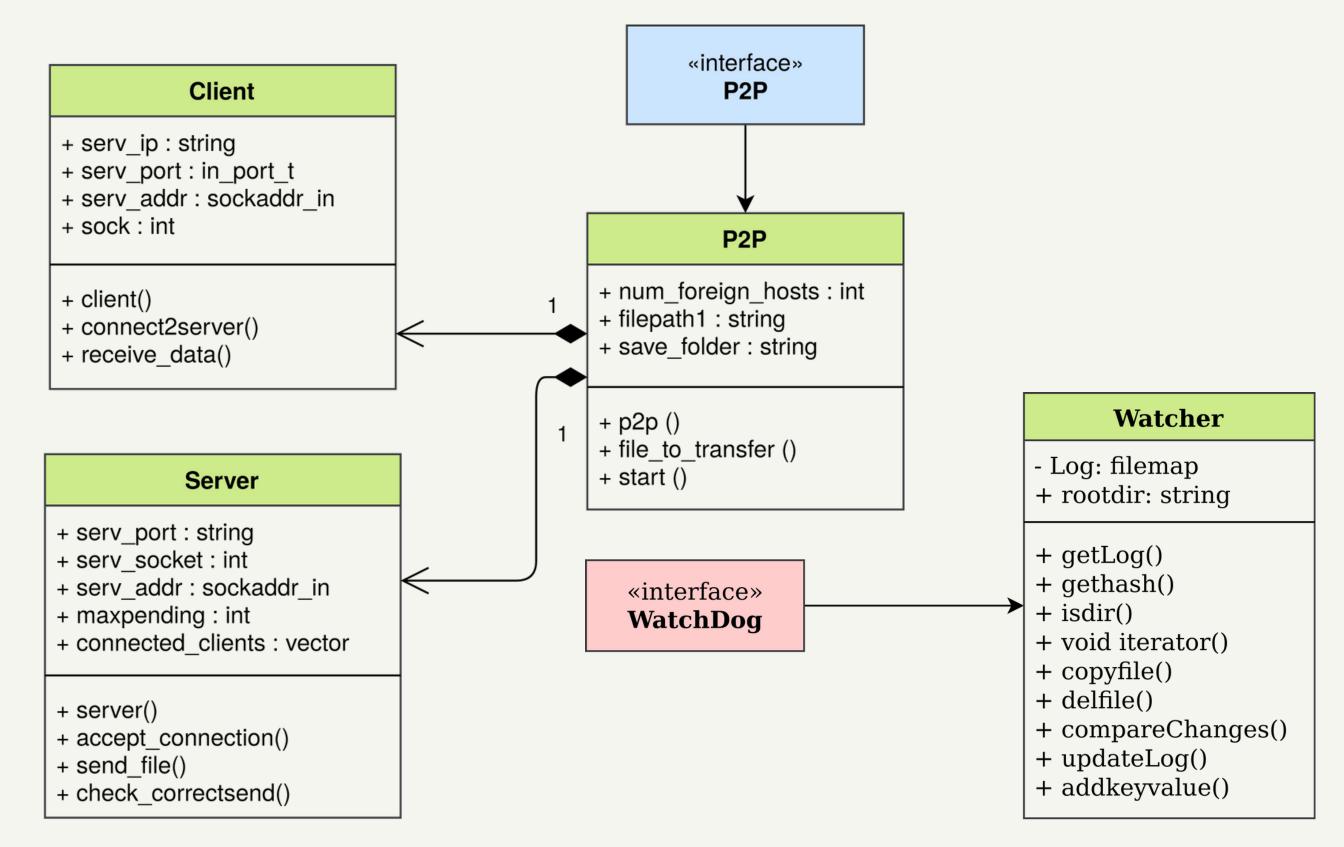




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Code Structure



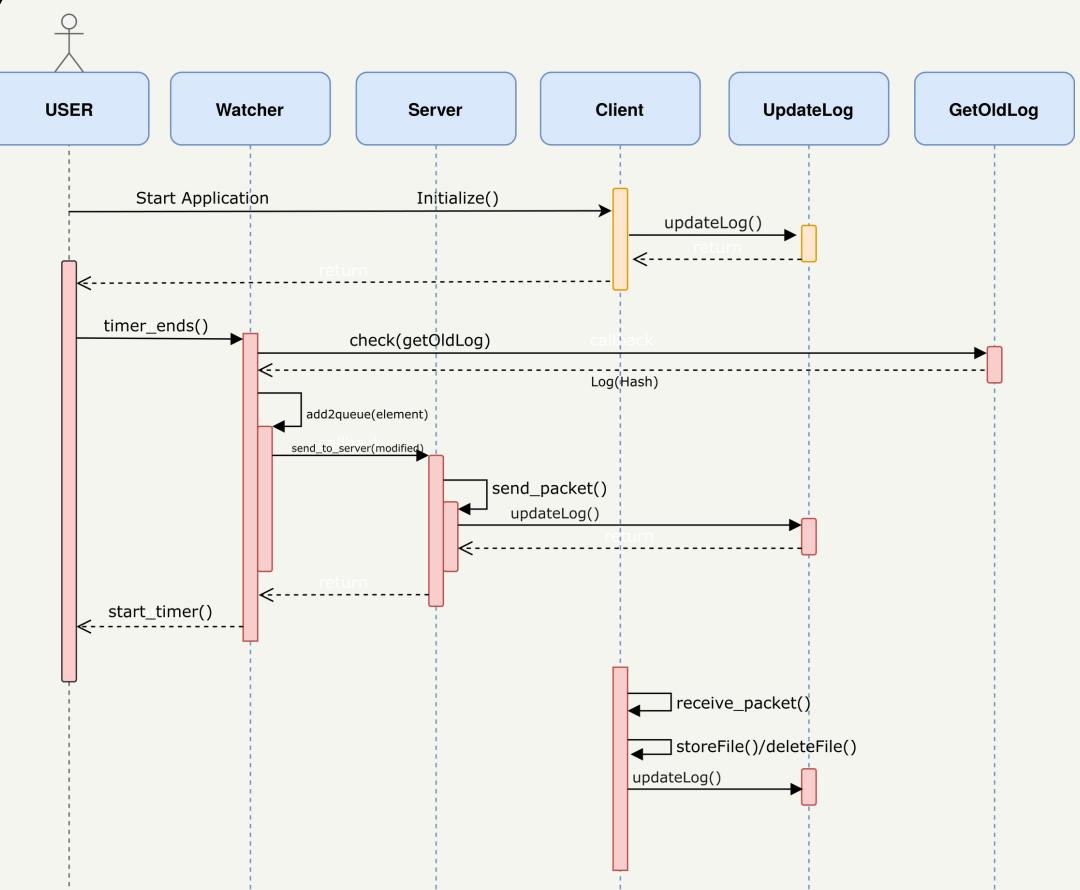
Ticket Lock



Working Demo



Code Flow



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- Doesn't allow dynamic peer connections and disconnections.
- Simultaneous modification in same file by multiple peers would cause a race condition.

LIMITATIONS



- Support for Cross-Platform Synchronization.
- Incremental updating of files.
- Version Control

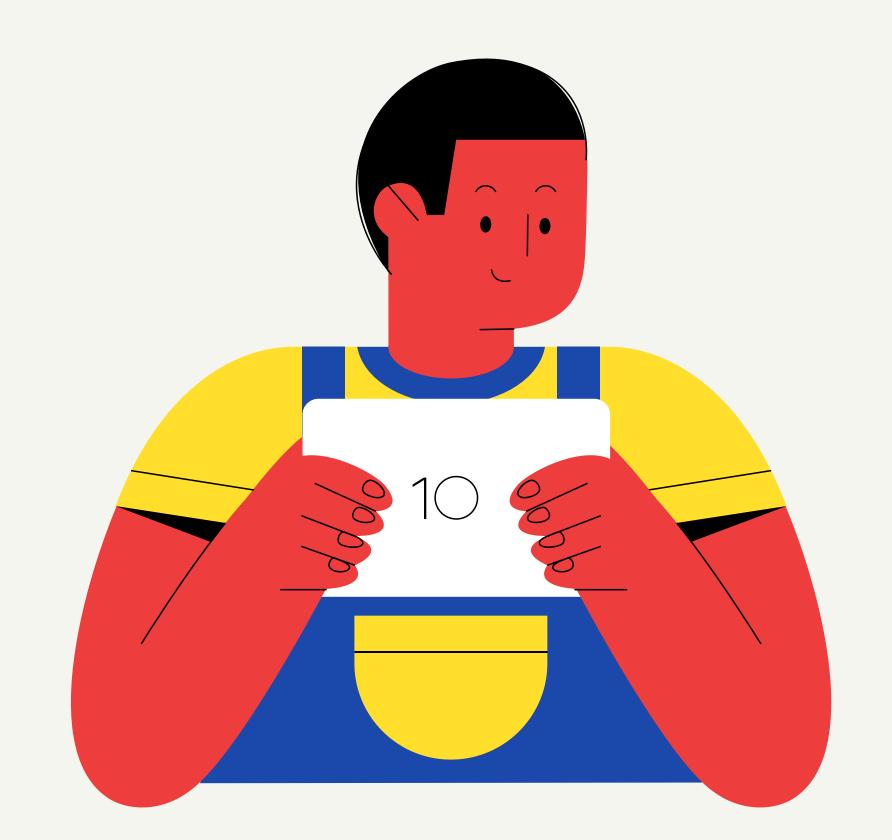
FUTURE WORK

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Thankyou



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