SEMINAR 5

● What is the article about?

2 uses for vclocks, how they work and how it is hard to implement

● What do vclocks guarantee?

Vclocks are used to derminte if events are casually related. Therefore they can guarantee the integrity of specific data

● Explain the concept of "pruning" a vclock and why we would do that.

The concept of “pruning” is used when the vclock grows continuously as more clients use a system over time. To do this we add timestamps to each field and update it to current time if the field is incremented. If a vclock gets too big, we can remove fields starting with the oldest

● What other timekeeping tools are used besides vclocks?

Lamport Timestamps - are used to (partially) order events in a distributed system. The algorithm is based on the causal ordering of events and is the foundation of Vector Clock. Interval Tree Clocks - the way interval tree clocks work is fairly equivalent to vector clocks in that you can track causality, figure out conflicts, and so on. It however differs in one major way, which is that it is intended to be used in very dynamic environments where cluster membership may change constantly.