



Databases
and
Software
Engineering

My Awesome Presentation

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Why collaborate?

- Domain knowledge is typically spread across **different collaborators**
⇒ Leverage group synergies for problem solving

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- Engineers can discuss the feature model with domain experts
⇒ **Real-time feedback**

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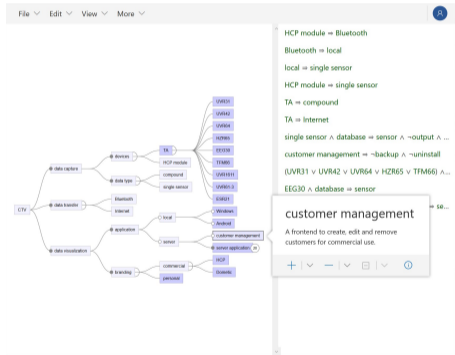
- Engineers can discuss the feature model with domain experts
⇒ **Real-time feedback**
- Allows **tight collaboration** on shared model elements
(similar to pair programming)

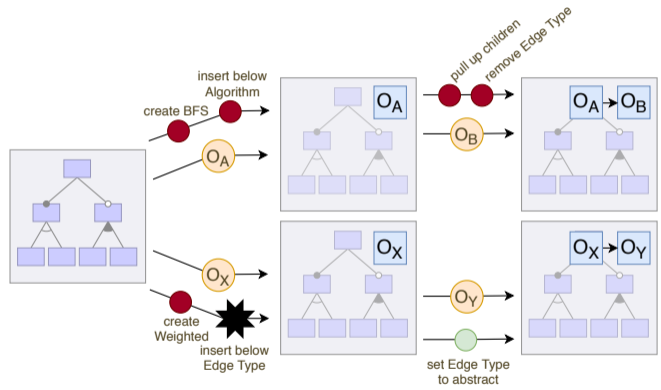
Our contribution:

1. Formal approach to **collaborative real-time feature modeling** with focus on
 - Consistency maintenance
 - Conflict detection (& resolution)

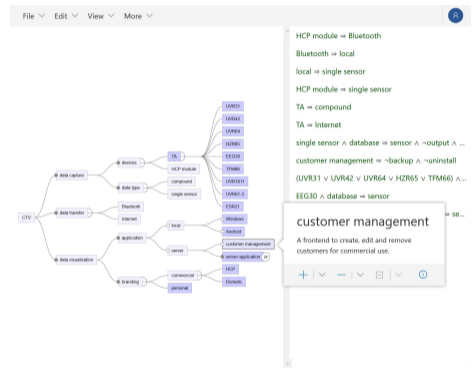
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2. Open-source research prototype





Formal description



Open-source prototype

	Turn-Taking	Locking	CRDTs	Serialization	OT	MVSD	MVMD
Concurrency	○	◐	●	●	●	●	●
Optimism	◐	○	●	●	●	●	●
Intention Preservation	●	○	○	○	○	◐	●
Flexibility	●	○	○	○	○	○	◐
Correctness	●	◐	◐	●	○	○	◐